

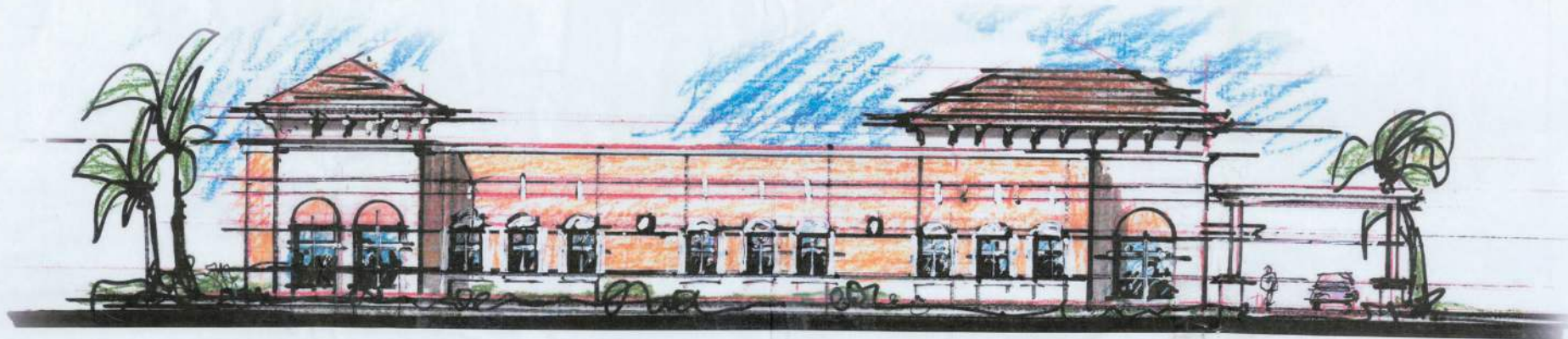
LAKE CITY WEST



**FRESENIUS
MEDICAL CARE**

Lake City, FL

33475



OWNER: LAKE CITY
CONSTRUCTION, LLC
8117 PRESTON ROAD, ST#400
DALLAS, TEXAS - 75225
PHONE: 469.828.3375
CONTACT: LUKE PETERS

TENANT: FRESENIUS MEDICAL CARE
NORTH AMERICA
4953 VAN DYKE ROAD
LUTZ, FL - 33558
PHONE: 813.961.1217 EXT. 212
CONTACT: AL ALLEN

APPROVED PLANS TO BE SUBMITTED
FOR PERMITTING TO THE CITY OF LAKE CITY
FOR CONSTRUCTION OF THIS PROJECT
DATE: 11/24/11



ARCHITECT OF RECORD: CALLAWAY ARCHITECTURE, LLC
1207 HAMPSHIRE LANE, ST#105
RICHARDSON, TEXAS - 75080
PHONE: 214.368.2525
CONTACT: SCOTT STONE



STRUCTURAL ENGINEER: ARMSTRONG-DOUGLASS
PARTNERS, LLC
6060 N. CENTRAL EXPY, ST#360
DALLAS, TEXAS - 75206
PHONE: 214.237.7022
CONTACT: SCOTT ARMSTRONG



MECHANICAL ENGINEER: DC ENGINEERING P.C.
440 E CORPORTATE DR, ST#103
MERIDIAN, IDAHO - 83642
PHONE: 208.288.2181
CONTACT: GINA HENNING



ELECTRICAL ENGINEER: DC ENGINEERING P.C.
440 E CORPORTATE DR, ST#103
MERIDIAN, IDAHO - 83642
PHONE: 208.288.2181
CONTACT: GINA HENNING



GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE REVIEW AND COMPLIANCE TO ALL CONTRACT DOCUMENTS. IN THE CASE OF APPARENT CONFLICTS AND DISCREPANCIES IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF SUCH APPARENT CONFLICTS AND REQUEST CLARIFICATION FROM THE ARCHITECT. CORRECTIONS OR DELAYS IN SCHEDULE WILL BE ACCEPTED DUE TO CONTRACTOR'S MISINTERPRETATION AND DELAYS TO PROJECT CLARIFICATION.
- DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH APPARENT DIMENSIONAL DISCREPANCIES AND REQUEST CLARIFICATION FROM THE ARCHITECT. NO ADDITIONAL COSTS OR DELAYS IN SCHEDULE WILL BE ACCEPTED DUE TO CONTRACTOR'S MISINTERPRETATION AND DELAYS TO PROJECT CLARIFICATION OF DIMENSION QUESTIONS.
- "TYPICAL" NOTES APPLY TO ALL SIMILAR CONDITIONS. TYPICAL DETAILS ARE COMMON GENERAL CONDITIONS AND APPLY TO ALL CIRCUMSTANCES UNLESS NOTED OTHERWISE.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE PROJECT SITE, INVESTIGATE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BEGINNING THE PROJECT. ADDITIONAL COSTS WILL NOT BE INCURRED FOR CHANGES CAUSED BY EXISTING CONDITIONS WHICH ARE VISIBLE AND/OR CAN BE REASONABLY ANTICIPATED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SIZES, GRADES, ETC. PRIOR TO CONSTRUCTION AND NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES THAT COULD AFFECT THE DESIGN AND PERFORMANCE OF THE PROJECT. BUILDING LAYOUT IS TO BE VERIFIED BY A LICENSED SURVEYOR WITH WRITTEN VERIFICATION FORWARDED TO THE OWNER AND ARCHITECT.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CITY, STATE AND NATIONAL CODES AND STANDARDS INCLUDING OSHA AND ACCESSIBILITY CODES.
- THE CONTRACTOR'S SUBCONTRACTORS SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS, TAXES AND CERTIFICATES OF OCCUPANCY.
- HAZARDOUS MATERIALS MAY NOT BE STORED, USED OR DISPOSED AT THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ASPECTS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO THE CONTRACT DOCUMENTS WITH ALL SUBCONTRACTORS. THIS COORDINATION APPLIES FROM THE BEGINNING THROUGH FINAL CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE WORK INDICATED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL UTILITY COMPANIES AND PERSONS IN THE WORK AREA AND THEM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE FILING AND COORDINATION OF ALL UTILITY COMPANY TRENCHES BOTH EXTERIOR AND INTERIOR OF BUILDINGS TO THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT AND IN THE CIVIL ENGINEERING DRAWINGS.
- ALL EXCAVATION, TRENCHING, ETC. REQUIRED IN ROCK SUBGRADE IS TO BE PART OF THE CONTRACT. THE CONTRACTOR SHOULD REFER TO THE GEOTECHNICAL REPORT TO VERIFY APPLICABILITY.
- SHORE AND BRACE ALL EXCAVATIONS IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND AUTHORITIES.
- TRANSFORMER PADS AND CONCRETE FILLED STEEL PIPE BOLLARDS AT TRANSFORMERS AND METER LOCATIONS ARE TO BE PART OF THE CONTRACT. CONSTRUCTION SHALL BE PER UTILITY COMPANY REQUIREMENTS.
- ALL PENETRATIONS THROUGH RATED PARTITIONS, CEILING AND OTHER ASSEMBLIES SHALL BE INSTALLED AND THROUGH RATED IN A MANNER APPROPRIATE TO MAINTAIN ALL REQUIRED RATINGS.
- ALL SIDEWALKS AND CROSSWALKS SHALL BE SLOPED 4.75% MAXIMUM IN THE DIRECTION OF TRAVEL AND 1.75% MAXIMUM ON CROSS SLOPES. ALL LANDINGS AND ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1.75% SLOPE IN ANY DIRECTION.
- PROVIDE ADEQUATE BLOCKING IN WALLS AS REQUIRED TO SUPPORT ALL WALL MOUNTED EQUIPMENT. FIXTURES, ACCESSORIES, AND SIGNAGE BLOCKING SHALL BE PRESERVE TREATED AND FIRE RATED IF REQUIRED BY THE BUILDING TYPE.
- THE CONTRACTOR IS TO REFER TO THE M.E.P. DRAWINGS AND SPECIFICATIONS FOR ANY HUNG ACCESS PANELS AND COLUMNS NOT INDICATED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ACCESS PANEL LOCATIONS RATINGS AND SIZES FOR ALL WALLS WITH ALL TRADES.
- ALL DOOR HARDWARE IS TO COMPLY WITH APPLICABLE CODES, REGULATIONS, AND AUTHORITIES, WHETHER OR NOT SPECIFICALLY INDICATED IN THE DRAWINGS OR SPECIFICATIONS.
- ALL EXPOSED EXTERIOR WALL MOUNTED CONDUITS, BUS OUTLETS, JUNCTION BOXES, PANEL BOXES, METERS, PIPES, ETC. ARE TO BE PAINTED TO MATCH EXTERIOR FINISH COLOR OF ADJACENT SURFACE.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL COMPONENTS AT MOUNTING HEIGHTS REQUIRED BY THE MOST RECENT ISSUE OF THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE STATE REGULATIONS FOR ANY PARTICULAR APPLICATION INDICATED. REFER ANY QUESTIONABLE MOUNTING HEIGHT DECISIONS TO THE ARCHITECT FOR FINAL DECISION.
- EXTERIOR MASONRY WALL SURFACES ARE TO RECEIVE THEIR FINAL COATINGS AND SEALERS PRIOR TO THE INSTALLATION OF ALL SHEET METAL WORK. SURFACE MOUNTED UTILITIES, METAL FABRICATIONS, ETC.
- ALL MATERIALS SHALL BE INSTALLED ACCORDING TO INDUSTRY STANDARDS, BEST PRACTICES, RELEVANT AGREES AND STANDARDS RECOMMENDATIONS REFERENCED IN THE SPECIFICATIONS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS THE MOST STRINGENT, IN ORDER TO DELIVER A COMPLETE AND HIGH-QUALITY PRODUCT.

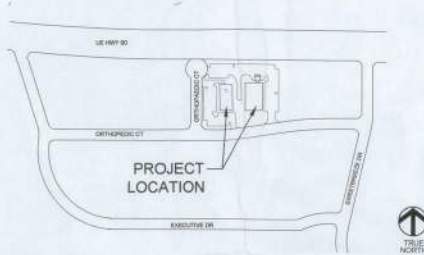
ABBREVIATIONS

| ABB. | DESCRIPTION |
|----------|--|
| ADA | AMERICANS WITH DISABILITIES ACT |
| A.F.F. | ABOVE FINISHED FLOOR |
| AL | ALUMINUM |
| AW | ADJUSTABLE WALL |
| B.C. | BUTT JOINT |
| B.V.R. | BUILT UP ROOF |
| C.C. | CONCRETE |
| C.M. | CONCRETE MASONRY MANAGER |
| CCMC | CONCRETE |
| CR | CERAMIC TILE |
| CS | CEILING |
| FC | FLOOR FINISH |
| FCI | FIRE EXTINGUISHER BRACKET W/ FIRE EXTINGUISHER |
| F.E.C. | FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER |
| GA | GALVANNEED STEEL |
| G.S. | GYP/SUM BOARD |
| G.C. | GENERAL CONTRACTOR |
| H.M. | HOLLOW METAL |
| L.S. | LANDSCAPING |
| MDF | MEDIUM DENSITY FIBERBOARD |
| MFR | MANUFACTURER |
| M.O. | MASONRY OPENING |
| MNL | MINIMUM |
| N.I.C. | NOT IN CONTRACT |
| N.T.S. | NOT TO SCALE |
| O.C. | OVERFLOW DRAIN |
| O.F.C.I. | OWNER FURNISHED CONTRACTOR INSTALLED |
| O.F.O. | OWNER FURNISHED OWNER INSTALLED |
| PEMB | PREDENGINEERED METAL BLDG. |
| PLM | PLASTIC LAMINATE |
| R.D. | ROUGH DRAIN |
| R.F.M. | RECESSED FLOOR MAT |
| R.O. | ROUGH OPENING |
| S.B. | SPRAY BLOCK |
| S.O. | SLAB OPENING |
| T.F.C.I. | TENANT FURNISHED CONTRACTOR INSTALLED |
| T.F.T.I. | TENANT FURNISHED TENANT INSTALLED |
| T.O. | TOP OF |
| U.N.C. | UNLESS NOTED OTHERWISE |
| V.W.C. | VINYL WALL COVERING |
| W.H. | WATER HEATER |
| W.P. | WORK POINT |

LOCATION PLAN



REFERENCE PLAN



Building Location

NOT TO SCALE

CODE INFORMATION

| | |
|--|---|
| LOCATION: | LAKE CITY, FLORIDA |
| APPLICABLE CODES: | 2010 FLORIDA BUILDING CODE BUILDING 2010 FLORIDA BUILDING CODE EXISTING BUILDING 2010 FLORIDA BUILDING CODE ENERGY CONSERVATION 2010 FLORIDA BUILDING CODE FUEL GAS 2010 FLORIDA BUILDING CODE PLUMBING 2010 FLORIDA BUILDING CODE MECHANICAL 2010 FLORIDA ACCESSIBILITY CODE ACCESSIBILITY ANS A117.1 |
| NUMBER OF STORES: | 1 |
| CONSTRUCTION TYPE: | IB (UNPROTECTED) |
| OCCUPANCY TYPE: | SPRINKLERED BUSINESS (MEDICAL OFFICE) |
| TABLE 503 | |
| ALLOWABLE BUILDING HEIGHT: | 35 FT |
| BUILDING HEIGHT SHOWN: | 33 - 2' |
| ALLOWABLE BUILDING AREA: | 20,000 SF |
| WITH SPRINKLER INCREASE: | 69,000 SF |
| AFFECTED BUILDING AREA SHOWN: | 10,327 SF |
| TABLE 1024.1.1 | |
| OCCUPANT LOAD: | |
| BUSINESS: 100 SF (UPON 288)PPP | 10,327/100 = 104 |
| TABLE 1006.1 | |
| MIN REQUIRED EXIT WIDTH: | GREATER OF 104 x 2' = 208' OR 32' |
| SECTION 1015: 148 OCCUPANTS: | 2 EXITS REQUIRED |
| | 4 EXITS PROVIDED |
| PARKING | |
| PARKING REQUIRED FOR SHELL: 1 SPACE/150 SF | 10,327/150 = 69 SPACES REQUIRED |
| ACCESSIBLE SPACES: 1 SPACE/26 SPACES | 69/26 = 2 SPACES REQUIRED |
| | 7 SPACES PROVIDED |

SUMMARY OF WORK

10,327 SQFT SHELL ONLY MEDICAL CARE FACILITY LOCATED IN LAKE CITY, FLORIDA.

SHEET LIST

| NO. | DATE | REVISION | SHEET NO. | SHEET NAME |
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Calaway
architecture

1207 HAMPSHIRE LN, ST #905, RICHARDSON, TX 75080
PHONE: 214.368.8525



LAKE CITY WEST
FMC DIALYSIS CLINIC

REGULATORY
MEDICAL CARE

Orthopaedic Ct.

Lake City, FL

REVISIONS:

JOB NO: 14013

GENERAL SHEET

G

DATE: 09.11.14

301 General. The provisions of Chapter 3 shall apply where required by Chapter 2 or where indicated by a requirement in this document.

302 Floor or Ground Surfaces.
302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.2.
EXCEPTIONS:
 1. Areas of normal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
 2. Areas of special activity shall not be required to comply with 302.2.

302.2 Carpet or Carpet Tile. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion at all. Carpet or carpet tile shall have a level loop, twisted loop, wool cut pile, or level cut-loop pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Edged edges of carpet shall be fastened to the surface and shall have loops on the entire length of the exposed edge. Carpet edge trim shall comply with 302.3.

302.3 Openings. Coverings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.2, 409.4.3, 410.4, 410.5.3 and 401.10.1. Congruent openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

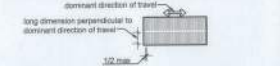


Figure 302.3 Congruent Openings in Floor or Ground Surfaces

303 Changes in Level.
303.1 General. Where changes in level are indicated in floor or ground surfaces, they shall comply with 303.2.
EXCEPTIONS:
 1. Printed containment areas shall not be required to comply with 303.2.
 2. Areas of special activity shall not be required to comply with 303.2.
303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high maximum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

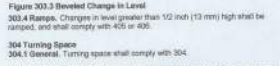


Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 403 or 406.

304 Turning Space.
304.1 General. Turning space shall comply with 304.2.

304.2 Floor or Ground Surface. Floor or ground surface of a turning space shall comply with 302. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:4 shall be permitted.
Advisory 304.2 Floor or Ground Surface Exception. As used in this section, the phrase "changes in level" refers to surfaces with slopes and to surfaces with minor non-exceeding that permitted in Section 303.3. Such changes in level are prohibited in required clear floor and ground spaces, turning spaces, and in similar spaces where people using wheelchairs and other mobility devices must pass their mobility aids such as wheelchair spaces, or maneuver to use elements such as doors, tables, and telephones. The maximum permitted slopes are not steeper than 1:48.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space with a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstruction 12 inches (305 mm) minimum in each direction and the base shall be clear of obstruction 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of and/or the base of one arm.



Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space.
305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surface. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:4 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (762 mm) minimum by 48 inches (1219 mm) minimum.



Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned to allow forward or parallel approach to an element.



Figure 305.5 Limits of Protruding Object

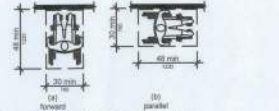


Figure 305.6 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route at edge of either clear floor or ground space.
305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an aisle or otherwise confined on all or part of two sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.



Figure 305.7.1 Maneuvering Clearance in an Aisle, Forward Approach



Figure 305.7.2 Parallel Approach

305.7.1 Forward Approach. Aisles shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

305.7.2 Parallel Approach. Aisles shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).



Figure 305.7.2 Maneuvering Clearance in an Aisle, Parallel Approach

306 Knee and Toe Clearance.
306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance. Space under an element between the finish floor or ground surface and the element shall be clear of obstruction 25 inches (635 mm) minimum under an element.

306.3 Minimum Required Depth. Where toe clearance is required in an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.4 Additional Clearance. Spaces exceeding greater than 6 inches (150 mm) beyond the available knee clearance of 8 inches (203 mm) above the finish floor or ground shall not be considered toe clearance.

306.5 Width. Toe clearance shall be 30 inches (762 mm) wide minimum.

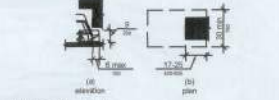


Figure 306.2 Toe Clearance

306.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) minimum above the finish floor or ground, the toe clearance shall be 11 inches (280 mm) deep minimum at 27 inches (686 mm) above the finish floor or ground.

306.4 Clearance Reduction. Between 8 inches (203 mm) and 27 inches (686 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.5 Width. Knee clearance shall be 30 inches (762 mm) wide minimum.

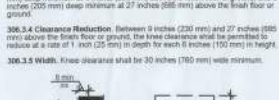


Figure 306.3 Knee Clearance

307 Protruding Objects.
307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.3 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.4 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.5 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.6 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.7 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.8 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.9 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.10 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

307.11 Protrusion Limits. Objects with leading edges more than 27 inches (686 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall be limited to 1/2 inch (13 mm) in height.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (113 mm) maximum.

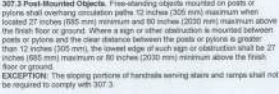


Figure 307.1 Post-Mounted Objects



Figure 307.2 Vertical Clearance



Figure 307.3 Ramped Clear Width

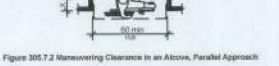


Figure 307.4 Unobstructed Forward Reach

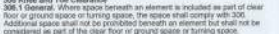


Figure 307.5 Unobstructed High Forward Reach

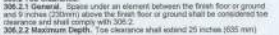


Figure 307.6 Unobstructed High Forward Reach

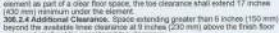


Figure 307.7 Unobstructed High Forward Reach



Figure 307.8 Unobstructed High Forward Reach



Figure 307.9 Unobstructed High Forward Reach

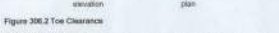


Figure 307.10 Unobstructed High Forward Reach

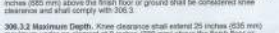


Figure 307.11 Unobstructed High Forward Reach

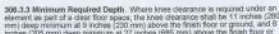


Figure 307.12 Unobstructed High Forward Reach

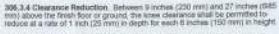


Figure 307.13 Unobstructed High Forward Reach

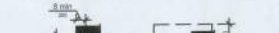


Figure 307.14 Unobstructed High Forward Reach



Figure 307.15 Unobstructed High Forward Reach

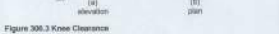


Figure 307.16 Unobstructed High Forward Reach

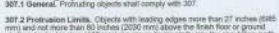


Figure 307.17 Unobstructed High Forward Reach



Figure 307.18 Unobstructed High Forward Reach



Figure 307.19 Unobstructed High Forward Reach

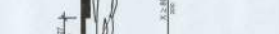


Figure 307.20 Unobstructed High Forward Reach

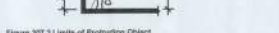


Figure 307.21 Unobstructed High Forward Reach

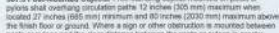


Figure 307.22 Unobstructed High Forward Reach

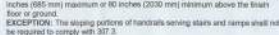


Figure 307.23 Unobstructed High Forward Reach

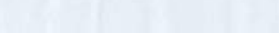


Figure 307.24 Unobstructed High Forward Reach

308 Operable Parts.
308.1 General. Operable parts shall comply with 308.
308.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided for the operable part.
308.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.
308.4 Operation. Operable parts shall be operable with one hand and shall not require twisting, bending, or reaching of the body. The force required to activate operable parts shall be 5 pounds (22.7 N) maximum.
EXCEPTION: Gate swing mechanisms shall not be required to provide operable parts that have an activating force of 5 pounds (22.7 N) maximum.

401 General. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.
402 Accessible Routes.

402.1 General. Accessible routes shall comply with 402.
402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20; doorways, ramps, curb ramps excluding the flared ends, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces. Walking surfaces that are a part of an accessible route shall comply with 403.
403.1 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.
403.2 Slope. The running slope of walking surfaces shall not be steeper than 1:30. The cross slope of walking surfaces shall not be steeper than 1:49.
403.3 Changes in Level. Changes in level shall comply with 303.
403.4 Clearances. Walking surfaces shall provide clearances complying with 403.5.
EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased where engineering provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.
EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (813 mm) minimum for a length of 24 inches (610 mm) maximum provided that the reduced width is necessary to accommodate a person using a wheelchair (320 mm) minimum and 36 inches (915 mm) wide minimum.

403.5.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.
403.5.3 Slope. The running slope of walking surfaces shall not be steeper than 1:30. The cross slope of walking surfaces shall not be steeper than 1:49.
403.4 Changes in Level. Changes in level shall comply with 303.
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EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (813 mm) minimum for a length of 24 inches (610 mm) maximum provided that the reduced width is necessary to accommodate a person using a wheelchair (320 mm) minimum and 36 inches (915 mm) wide minimum.

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EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased where engineering provided that the decrease is essential to the function of the work being performed.

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EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (813 mm) minimum for a length of 24 inches (610 mm) maximum provided that the reduced width is necessary to accommodate a person using a wheelchair (320 mm) minimum and 36 inches (915 mm) wide minimum.

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403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.
EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased where engineering provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.
EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (813 mm) minimum for a length of 24 inches (610 mm) maximum provided that the reduced width is necessary to accommodate a person using a wheelchair (320 mm) minimum and 36 inches (915 mm) wide

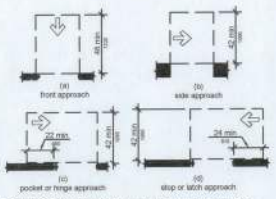


Figure 404.2.1 Door and Gate Surfaces

404.2.19 Door and Gate Surfaces. Sliding door and gate surfaces within 10 inches (250 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the slide. The top edge of horizontal or vertical panels on sliding doors shall be within 1/8 inch (3 mm) of the same plane as the other. Cavities created by added lock pieces shall be capped.

EXCEPTIONS:
1. Sliding doors shall not be required to comply with 404.2.19.
2. Temporary glass doors without sills and having a bottom rail or shoe with a sliding edge tapered at 10 degrees minimum from the horizontal shall not be required to comply with 404.2.19.

404.2.20 Doors and Gates. Doors and gates shall not be required to comply with 404.2.19 if:
1. A leading edge of a door or gate is not required to be within 10 inches (250 mm) of the finish floor or ground and the door or gate is smooth surface complying with 404.2.19 provided that if added lock plates are installed, cavities created by such lock pieces are capped.

404.2.11 Vision Lights. Goggles, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the top of at least one glazed panel located 43 inches (1090 mm) minimum above the finish floor.

EXCEPTION: Vision lights with the lowest panel more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.2 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-power automatic doors shall comply with ANSI/HIWA 1156.2 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/HIWA 1156.1 (1987 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.2.1 Clear Width. Clearways shall provide a clear opening of 32 inches (813 mm) minimum in power and power-off mode. The minimum clear width shall be the width of the door or gate when fully open. The minimum clear width shall be provided by the clear opening provided by full leaves in the open position.

404.2.2 Maneuvering Clearances. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates shall comply with 404.2.4. Clearances at manual doors and gates shall comply with 404.2.4.

404.2.3 Thresholds. Thresholds and changes in level at doorways shall comply with 404.2.5.

404.2.4 Doors in Series and Gates in Series. Doors in series and gates in series shall comply with 404.2.6.

404.2.5 Break Out Opening. Where doors and gates without sliding panels are a part of a means of egress, the clear break out opening at height of sliding doors and gates shall be 32 inches (813mm) minimum where operated in emergency mode.

EXCEPTION: Where manual opening doors and gates comply with 404.2.4 and serve the same means of egress compliance with 404.2.5 shall not be required.

404.2.6 Revolving Doors, Revolving Gates, and Turnstiles. Revolving door, revolving gates, and turnstiles shall not be part of a secondary route.

405 Ramps and Landings. Ramps or accessible routes shall comply with 405.2 through 405.6 and 405.10.

405.1 General. Ramps or accessible routes shall comply with 405.2 through 405.6 and 405.10. Ramps shall be designed to provide a clear width of 36 inches (915 mm) minimum. Ramps shall be designed to provide a clear width of 36 inches (915 mm) minimum. Ramps shall be designed to provide a clear width of 36 inches (915 mm) minimum.

405.2 Slope. Ramps shall have a running slope not steeper than 1:12. EXCEPTION: Ramps to existing alleys, buildings, and facilities shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2.2 where such slopes are necessary due to space limitations.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surface. Floor or ground surfaces over ramps shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.1.

405.7.1 Door and Gate Handrails. Handrails, push buttons, locks, and other operating parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (860 mm) maximum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and visible from both sides.

EXCEPTIONS:
1. Sliding locks shall be permitted in any location at existing glass panels without cities, existing overhead entry doors or gates, and manual sliding doors or gates that are designed with and lock activated only at the top or bottom rail.
2. Access gates in barrier walls and frames protecting pools, spas, and hot tubs that shall be permitted to have operable parts of the release only on self-latching devices 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-latching devices and operated by means of a key, electronic opener, or integral combination lock.

405.7.2 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

405.7.3 Door Closures and Gate Closures. Door closures and gate closures shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the stop is 15 seconds minimum.

405.7.4 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

405.7.5 Door and Gate Opening Force. Fire doors shall have a minimum opening force as follows by the appropriate administrative authority. The force for opening or pulling open a door or gate upon which the door shall be as follows:
1. Heavy fire-rated doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or rolling doors: 5 pounds (22.2 N) maximum. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

405.7.6 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 305.

EXCEPTION: Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to prevent the installation of handrails complying with 305. Ramps not subject to the exception by 405.8 shall be designed to maintain a 36 inch (915mm) minimum clear width when handrails are installed.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

EXCEPTIONS:
1. Edge protection shall not be required on ramps that are not required to have handrails and shall not be required to comply with 405.9.
2. Edge protection shall not be required on the sides of ramp landings serving an existing ramp run or staircase.
3. Edge protection shall not be required on the sides of ramp landings having a vertical drop of 15 inches (375 mm) maximum within 10 inches (250 mm) horizontality of the run, landing area specified in 405.7.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 305.

405.9.2 Curbs or Barriers. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

405.9.3 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 302.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the height ranges specified in 308, measured to the centerline of the highest operable part.

407.2.2 Size. Call buttons shall be 3/4 inch (19 mm) min. in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.2.

407.2.3 Clear Floor or Ground Surface. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.4 Location. The call button that designates the up direction shall be located above the down direction.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.4.

407.2.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.5 provided that visible and audible signals complying with 407.2.2.2 indicating which elevator car is serving are provided.
2. Existing elevators shall not be required to comply with 407.2.5.

407.2.6 Keypads. Where keypads are provided, keypads shall be in a standard keyphone keypad arrangement and shall comply with 407.2.6.2.

407.2.7 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.7.

407.2.8 Visible and Audible Signals. Visible and audible signal shall be provided at each hallway entrance to indicate which car is answering a call and the car's direction of travel. Where floor signals are provided, they shall be visible from the floor area adjacent to the call button.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.8.2 is provided indicating the elevator or destination information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.9 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 1/2 inch (6.4 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have visible signals visible from the floor area adjacent to the hallway entrance.
2. Existing elevators shall not be required to comply with 407.2.9.

407.2.10 Available Signals. Audible signals shall sound once for the up direction and twice for the down direction, or shall have other arrangements that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1000 Hz minimum. Visible signals shall have a frequency of 300 Hz minimum and 100 lumens minimum. The audible signal and visible signal shall be 10 to 48 inches (250 mm) above ambient, but shall not exceed 90 inches (2280 mm), measured at the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.10 provided that the audible tone and visible announcement in the same as those given at the hall call button or call button keypad.
2. Existing elevators shall not be required to comply with the requirements for frequency signals.

407.2.11 Differentiation. Each destination-oriented elevator in a bank of elevators shall have audible and visible means for differentiation.

407.2.12 Highway Signs. Signs at elevator hallways shall comply with 407.2.3.

407.2.3.1 Floor Designations. Floor designations complying with 702.2 and 703.1.1 shall be provided on both sides of elevator hallways entrance. Floor designations shall be provided to both tactile hardware and braille. Tactile characters shall be 2 inches (51 mm) high, minimum. A tactile character shall be provided both parallel to the main entry aisle.

407.2.3.2 Floor Designations on Aisles of Elevator Hallway. Floor designations shall be provided on both sides of the hallway immediately below the floor designations. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.3 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.0 on both sides of the hallway immediately below the floor designations. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.4 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.5 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.7 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.10 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.12 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.13 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.14 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.15 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.16 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.17 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.18 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 305.

405.9.2 Curbs or Barriers. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

405.9.3 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 302.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the height ranges specified in 308, measured to the centerline of the highest operable part.

407.2.2 Size. Call buttons shall be 3/4 inch (19 mm) min. in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.2.

407.2.3 Clear Floor or Ground Surface. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.4 Location. The call button that designates the up direction shall be located above the down direction.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.4.

407.2.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.5 provided that visible and audible signals complying with 407.2.2.2 indicating which elevator car is serving are provided.
2. Existing elevators shall not be required to comply with 407.2.5.

407.2.6 Keypads. Where keypads are provided, keypads shall be in a standard keyphone keypad arrangement and shall comply with 407.2.6.2.

407.2.7 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.7.

407.2.8 Visible and Audible Signals. Visible and audible signal shall be provided at each hallway entrance to indicate which car is answering a call and the car's direction of travel. Where floor signals are provided, they shall be visible from the floor area adjacent to the call button.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.8.2 is provided indicating the elevator or destination information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.9 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 1/2 inch (6.4 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have visible signals visible from the floor area adjacent to the hallway entrance.
2. Existing elevators shall not be required to comply with 407.2.9.

407.2.10 Available Signals. Audible signals shall sound once for the up direction and twice for the down direction, or shall have other arrangements that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1000 Hz minimum. Visible signals shall have a frequency of 300 Hz minimum and 100 lumens minimum. The audible signal and visible signal shall be 10 to 48 inches (250 mm) above ambient, but shall not exceed 90 inches (2280 mm), measured at the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.10 provided that the audible tone and visible announcement in the same as those given at the hall call button or call button keypad.
2. Existing elevators shall not be required to comply with the requirements for frequency signals.

407.2.11 Differentiation. Each destination-oriented elevator in a bank of elevators shall have audible and visible means for differentiation.

407.2.12 Highway Signs. Signs at elevator hallways shall comply with 407.2.3.

407.2.3.1 Floor Designations. Floor designations complying with 702.2 and 703.1.1 shall be provided on both sides of elevator hallways entrance. Floor designations shall be provided to both tactile hardware and braille. Tactile characters shall be 2 inches (51 mm) high, minimum. A tactile character shall be provided both parallel to the main entry aisle.

407.2.3.2 Floor Designations on Aisles of Elevator Hallway. Floor designations shall be provided on both sides of the hallway immediately below the floor designations. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.3 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.0 on both sides of the hallway immediately below the floor designations. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.4 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.5 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.6 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.8 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.9 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.14 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.17 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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407.2.3.21 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

407.2.3.22 Directional Indicators. Destination-oriented elevators shall provide tactile directional indicators complying with 703.0 on both sides of the hallway immediately below the floor designations. Directional indicators shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

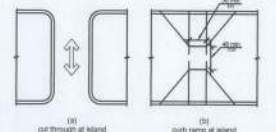


Figure 407.2.3.2 Car Designations on Aisles of Destination-Oriented Elevator Hallways

407.2.3.3 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.0 on both sides of the hallway immediately below the floor designations. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high, minimum.

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CONDITIONS OF CONTRACT

The following Conditions of Contract are included as if bound with this document:

- Owner/Contractor Agreement
1. AIA A101-1997, Stipulated Sum, For Construction Projects of Limited Scope

- General Conditions:
1. AIA A201-1997, for Construction

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01000 - PROJECT REQUIREMENTS
Summary
1. The Project consists of a single story wood frame masonry and stone veneer shell building consisting of 10,331 square feet.

Project Requirements
1. Concurrent Work by Owner or Others: Tenant finish out work.

- Permits:
1. Apply for, obtain, and pay for building permits, other permits, and utility company back charges required to perform the work. Submit copies to Owner/Landlord.

- Interit:
1. Drawings and specifications are intended to provide the basis for the proper completion of the Project suitable for the intended use of the Owner.
2. Items not expressly set forth but which are reasonably implied or necessary for the proper performance of this work shall be included.

- Coordination:
1. Coordinate the work of all trades.
2. Prepare coordination drawings for areas above ceilings where close tolerances are required between building elements and mechanical and electrical work.
3. Verify location of utilities and existing conditions. Notify Architect of conditions differing from those indicated on the Drawings.
4. Verify dimensions on Drawings with dimensions at the Project. Do not scale Drawings.

- Cutting and Patching:
1. Provide cutting and patching work to properly complete the Project.
2. Do not remove or alter structural components without written approval.
3. Cut with tools appropriate for materials to be cut.
4. Patch with materials and methods to produce patch which is not visible from a distance of five feet.
5. Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decrease the performance, decrease acoustical performance, decrease energy performance, decrease operational life, or decrease safety factors.

- Field Engineering:
1. Verify and locate utilities, existing facilities, and equipment.
2. Survey and layout improvements, utilities, structures, and components.

- Project Meetings:
1. Arrange for a preconstruction conference prior to start of construction. Meeting shall be attended by Owner, Architect, Contractor, and major subcontractors.
2. Arrange for progress meetings and/or conference calls every week during construction. Record minutes and distribute promptly.

- Submittals:
1. Submit a project schedule and update at least monthly. Submit for approval all submittals listed in individual sections with the following number of copies: Shop drawings, reviewed and annotated by the Contractor, 3 copies; product data, 3 copies; samples, 3 sets plus range samples where applicable; test reports, 3 copies; warranties, 3 copies; other submittals, 3 copies.
2. Include details of construction and adjacent construction in shop drawings. Clearly indicate any deviations from requirements of the contract documents. Fabricate materials from approved shop drawings only.

- Quality Assurance:
1. Comply with applicable codes, regulations, ordinances and requirements of authorities having jurisdiction, including accessibility guidelines where applicable. Submit copies of inspection reports, notices and similar documents to Architect.
2. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years.
3. Use experienced installers. Furnish evidence of experience if requested.
4. Deliver, handle, and store materials in strict accordance with manufacturer's instructions.
5. List of any supplier or subcontractor is subject to Owner's approval.
6. Engage and pay for testing agencies as required. Refer to individual sections for additional requirements.

- Temporary Facilities:
1. Provide temporary facilities and connections as required for the proper completion of the project.
2. Provide and maintain temporary utility services.
3. Owner will pay for utility service consumed. Do not waste.
4. Provide temporary protection for adjacent areas to prevent contamination by construction dust and debris.
5. Provide temporary barricades as necessary to ensure protection of the public.
6. Provide suitable waste disposal units and empty regularly. Do not permit accumulation of trash and waste materials.
7. Provide temporary sanitary facilities.
8. Maintain egress within and around construction areas.
9. Provide fire extinguishers in work areas during construction.
10. Provide temporary protection for adjacent construction. Promptly repair any damage at no additional cost to the Owner.

- Products and Substitutions:
1. Provide products and materials specified. Request Architect's selection of colors and accessories in sufficient time to avoid delaying progress of the work.
2. Submit requests for substitutions shall be in writing, including reasons. Submit sufficient information for Architect to evaluate proposed substitution.
3. Remove and replace work which does not conform to the contract documents at no additional expense to the Owner.

- Installation:
1. Inspect substrates and report unsatisfactory conditions in writing.
2. Do not proceed until unsatisfactory conditions have been corrected.
3. Take field measurements prior to fabrication where practical. Form to required shapes and sizes with true edges, lines and angles. Provide inserts and templates as needed for work of other trades.
4. Install materials in exact accordance with manufacturer's instructions and approved submittals.
5. Install materials in proper relation with adjacent construction and with proper appearance.
6. Restore units damaged during installation. Replace units which cannot be restored at no additional expense to the Owner.
7. Refer to additional installation requirements and tolerances specified under individual specification sections.

- Closure:
1. Prepare punch list for remaining work for review by the Architect.
2. Complete punch list items promptly at no additional expense to the Owner.
3. Submit accurate record documents of building and site to comply with landlord's lease requirements.
4. Submit operating manuals, maintenance manuals, and warranty information to comply with landlord's lease requirements.
5. Obtain and submit copy of occupancy permits.
6. Train Owner's personnel as to use of building systems.
7. Remove temporary facilities and provide final cleaning and touch-up.
8. Restore portions of building, site improvements, landscaping and other items damaged by construction operations to the satisfaction of the Architect at its additional expense to the Owner.

SECTION 01030 - ALLOWANCES - NOT USED

SECTION 01033 - ALTERNATES - NOT USED

DIVISION 2 - SITEWORK

SECTION 02200 - SITE CLEARING - REFERENCE CIVIL DOCUMENTS

SECTION 02300 - EARTHWORK

- Summary:
1. Provide excavation, filling, compaction, and grading for buildings, site improvements, and utilities.
2. Provide materials as specified for sub-base, drainage fill, and backfill for slabs, pavements, and improvements.
3. Provide rock excavation without blasting unless authorized.
4. Provide additional materials from offers if required.
5. Provide removal and legal disposal of excavated materials.
6. Provide erosion control and control of runoff during earthwork operations.

Submittals:
1. Submit list and source of materials from offers, and submit proposed location for disposal of excess materials.

- Products:
1. Sub-base Material: Graded mixture of natural or crushed gravel, crushed stone or slag, and natural or crushed sand.
2. Drainage Fill: Washed, evenly graded mixture of crushed stone or gravel, with 100 percent passing a 1/2-inch sieve and not more than 5 percent passing a No. 200 sieve.
3. Backfill and Fill Material: Satisfactory soil materials free of clay, rock or gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetation, and other unsuitable materials.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Provide compaction under structures, building slabs, steps, pavements, and walkways; 95 percent maximum density, ASTM D 698, standard Proctor.
3. Provide compaction under lawns or unpaved areas, 90 percent maximum density, ASTM D 698, standard Proctor.
4. Provide grading tolerance for lawns, unpaved areas, and walks of plus or minus 1 inch.
5. Provide grading tolerance for pavements of plus or minus 1/2 inch.
6. Provide grading tolerance for fill under building slabs of plus or minus 1/2 inch measured with 10 foot straightedge.

DIVISION 3 - CONCRETE- REFERENCE STRUCTURAL

DIVISION 4 - MASONRY

SECTION 04800 - UNIT MASONRY

- Summary:
1. Provide Unit Masonry Construction:
a. Masonry brick.
2. Repair damaged masonry and repoint damaged joints.

Submittals:
1. Submit product data, samples, shop drawings, 4 foot by 4 foot mockup, list reports.

- Products:
1. Products: As selected by Architect complying with the following.
2. Products: Refer to Section 01030 - Allowances.
3. a. Face Brick:
1) Standard modular size, 3-5/8 inches thick by 2-1/4 inches high by 7-5/8 inches long.
2) Grade: ASTM C 216, Grade SW, severe weathering type areas subject to freeze, thaw and ASTM C 216, Grade MW, moderate weathering type elsewhere.
3) Type: ASTM C 216, Type FES, for general exposed use.
4) Special Shapes: As required by building configuration.
5) Bond Pattern: Running.
b. Stone Veneer:
4. Mortar and Grout:
a. Mortar Mix: ASTM C 270, Type S, for reinforced masonry, masonry below grade and masonry in contact with earth and ASTM C 270, Type N, for above grade loadbearing and nonloadbearing walls and parapet walls and for interior loadbearing and nonloadbearing partitions.
b. Mortar Materials: Portland cement, ASTM C 150, Type I or II.
c. Mortar Materials: Masonry cement, ASTM C 91.
d. Mortar Materials: Ready mixed, ASTM C 207, Type S materials.
e. Mortar Aggregate: Natural, ASTM C 144.
f. Mortar Aggregate: White, ASTM C 144.
g. Mortar Aggregate: Special color, ASTM C 144.
h. Grout Aggregate: ASTM C 404.
i. Hydraulic Lime: ASTM C 207, Type S.
j. Color: Natural.
k. Color: Colored pigmented mortar.
l. Ties and Anchors:
a. Bolt Wires: Galvanized steel.
b. Rigd Anchors: Galvanized steel.
c. Adjustable Masonry Veneer Anchor: Screw attached two-piece galvanized triangular or rectangular wire tie and metal anchor.
d. Dowel Studs: Galvanized steel metal.
e. Anchor Bolts: ASTM A 307, Grade A, galvanized.
f. Post installed Anchors: Chemical or expansion anchors.
5. Masonry Accessories:
a. Nonmetallic expansion joint strips.
b. Preformed control joint gaskets.
c. Bond breaker strips.
d. Weep sash and tubes.
e. Miter net.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with PCA Recommended Practices for Laying Concrete Block, Brick Institute of America Tech Notes, and NCMA TEK Bulletins.
3. Comply with cold weather and warm weather protection procedures as recommended in BIA Tech Notes.
4. Provide fire-rated assemblies complying with ASTM E 119.
5. Cleanest units when required. Maintain uniform joint width. Provide full bed, head and collar joints, except at weepholes.
6. Install lintels and accessories in masonry construction.
7. Coordinate installation of flashings.
8. Comply with applicable codes and regulations for spacing of ties and horizontal reinforcing.
9. Provide expansion and control joints in accordance with referenced publications.
10. Remove and replace damaged units.
11. Clean brick using bucket and brush method, BIA Tech Note 20.
12. Clean concrete masonry by dry brushing, NCMA TEK No. 28.

DIVISION 5 - METALS

SECTION 05500 - METAL FABRICATIONS

- Summary:
1. Provide metal fabrications:
a. Rough hardware.
b. Ladders.
c. Loose steel lintels.
d. Miscellaneous steel trim.
e. Dumpster enclosure gates.
2. Tolerances: Fabrication tolerance 1/8 inch in 10 feet, erection tolerance, 1/16 inch.

Submittals:
1. Submit product data, shop drawings.

- Products:
1. Steel Plates, Shapes and Bars: ASTM A 36.
2. Steel Tubing: ASTM A 500 or A 501.
3. Steel Pipe: Black Finish: ASTM A 53.
4. Stainless Steel Bar Stock: ASTM A 276, Type 302 or 304.
5. Stainless Steel Plate: ASTM A 568, Type 302 or 304.
6. Stainless Steel Tubing: ASTM A 654, Grade TP 304 or TP 316.
7. Aluminum Extruded Bars and Shapes: ASTM B 221 aluminum alloy.
8. Steel Finish: Painted.
9. Fasteners: non-corrosive, suitable for service intended.
10. Zinc-Coating: Hot-dip galvanized coating for materials in exterior assemblies or exterior walls.
11. Aluminum Finish: Clear anodized.
12. Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with ASTM E 985 for horizontal and raling structural performance.
3. Comply with AISI codes and specifications and with AWS Structural Welding Code.

DIVISION 6 - WOOD AND PLASTICS - REF. STRUC.

DIVISION 7 - THERMAL AND MOISTURE PROTECTIONS

SECTION 07100 - BUILDING INSULATION

- Summary:
1. Provide Building Insulation and Vapor Barriers:
a. Thermal insulation in exterior walls, blanket type.
b. Thermal insulation at underside of roofs, over heated spaces and over soffits, blanket type.
c. Thermal insulation over unheated areas, blanket type.
d. Sheet vapor retarders.

Submittals:
1. Submit product data, samples, shop drawings.

- Products:
1. Blanket Insulation:
a. Glass fiber or mineral slag fiber, ASTM C 685, Type I (unfaced).
2. Vapor Retarder (Not Integral with Insulation):
a. Polyethylene, ASTM D 4367, 6 mil, 0.13 perm vapor transmission rating.
b. Reinforced 2-ply polyethylene, 6 to 8 mil.
c. Reinforced 3-ply polyethylene, 10 to 12 mil.
d. Metal foil/polyester film, 0.5 mil polyester film laminated to 1.0 mil aluminum foil.
3. Accessories:
a. Adhesives and mechanical anchors.
b. Protection board.
c. Crack sealers and tapes.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Install insulation and vapor barriers with continuous coverage to provide optimum performance.

SECTION 07300 - SINGLE-PLY MEMBRANE ROOFING

- Summary:
1. Provide single-ply membrane roofing and roof insulation.
2. Membrane Roofing Warranty: Manufacturer's 15 year NDL warranty.

Submittals:
1. Submit product data, shop drawings, 15 year NDL warranty, maintenance data.

- Products:
1. Products: As selected by Architect complying with the following.
2. Membrane Roofing: Mechanically fastened.
3. TPO Membrane: TPO, 60mil, ASTM D 6678, color TBD by architect.
4. 1/4" Dens-Glo coverboard or approved equal.
5. Insulation: Polyisocyanurate.
6. Sheet Metal Accessories: SMACNA and NRCA recommendations & compatible with membrane.
7. Walkway Protection Board: Compatible with membrane.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Coordinate membrane roofing installation with flashing and metal accessories to shed water properly.

SECTION 07600 - FLASHING AND SHEET METAL

- Summary:
1. Provide Flashing and Sheet Metal:
a. Metal counterflashing and base flashing.
b. Exterior wall flashing and expansion joints.
c. Built-in metal valleys, gutters, and soppers.
d. Gutters and downspouts.
e. Exposed metal trim and fascia units.
f. Elastic flashing.
g. Elastic roof and wall expansion joint systems.
h. Laminated composition flashing.
i. Sheet metal accessories.
j. Girth vents.
k. Coated metal.

Submittals:
1. Submit product data, samples, shop drawings.

- Products:
1. Sheet Metal Flashing and Trim:
a. Zinc-Coated Steel: ASTM A 328, G90 hot-dip galvanized, 20 gage (0.035 inch).
b. Stainless Steel: AISI Type 302/304, ASTM A 889, 2D unannealed finish, 28 gage (0.156 inch).
c. Copper: ASTM B 370, 16 ounces per square foot.
d. Lead-Coated Copper: ASTM B 370, copper, 16 ounces per square foot, and 0.06 pounds per square foot lead coating both sides.
e. Sheet Aluminum: ASTM B 308, alloy 3003, clear anodized, 20 gage (0.509 inch).
f. Extruded Aluminum: 4083, T52, clear anodized, 0.090 inches for primary edge of extrusion.
2. Flexible Sheet Membrane Flashing: Nonreinforced flexible black elastic sheet, 50 to 65 mils thick, neoprene synthetic rubber sheet.
3. Flexible Sheet Membrane Flashing: Nonreinforced flexible black elastic sheet, 50 to 65 mils thick, butyl synthetic rubber sheet.
4. Flexible Sheet Membrane Flashing: Nonreinforced flexible black elastic sheet, 50 to 65 mils thick, EPDM synthetic rubber sheet.
5. Laminated Composition Sheet Flashing: 3 ounce copper sheet laminated between 2 layers of bituminous impregnated Kraft paper or saturated fabric.
6. Fabricated Units: Compliance with SMACNA Architectural Sheet Metal Manual.
7. Elastic Expansion Joints: Factory fabricated metal, flanged edges to fit curbs and curb substrate.
8. Soffit Vents: Continuous aluminum strip vents.
9. Coated Metal: Laminates of TPO membrane & galvanized steel. Membrane laminate color to match roof membrane.
10. Auxiliary Materials:
a. Sealer compatible with metal.
b. Bituminous isolation coating.
c. Masonic and elastomeric sealants.
d. Epoxy seam sealer.
e. Roofs: Joints building paper slip sheet.
f. Polyethylene underlayment.
g. Reglets and metal accessories.
h. Gutter and conductor head guards.
i. Asphalt roofing cement.

Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Install flashing and sheet metal with provision for expansion and contraction.
3. Install flashing and sheet metal to shed water properly.
4. Install gutters and downspouts to drain water properly.
5. Isolate dissimilar metals with bituminous coating.

SECTION 07610 - SHEET METAL ROOFING / PANELS
Summary:
1. Provide Sheet Metal Roofing:
a. Flat seam type.
b. Metal soffit panel.

Submittals:
1. Submit product data, samples, shop drawings.

- Products:
1. Aluminum Roofing Sheets:
a. Type: ASTM B 209, alloy 3003, H14.
b. Thickness: 0.032 inches.
c. Thickness: 0.040 inches.
d. Gullin Caps: 0.051 inches.
e. Finish: Fluoropolymer.
2. Auxiliary Materials:
a. Roofs: sized building paper.
b. Asphalt saturated organic felt underlayment.
c. Polyester fabric underlayment.
d. Polyethylene underlayment.
e. Rubberized asphalt underlayment.
f. Bituminous isolation coating.
g. Bottom bars and sills.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Install sheet metal roofing with provision for expansion and contraction.
3. Install sheet metal roofing to shed water properly.
4. Isolate dissimilar metals with bituminous coating.

SECTION 07620 - JOINT SEALERS

- Summary:
1. Provide joint sealers at interior and exterior vertical and horizontal joints.

Submittals:
1. Submit product data, mockup of each joint type, adhesion test results for each joint type.

- Products:
1. Silicone Elastomeric Joint Sealants:
a. Type and Application: One-part nonacid-curing silicone sealant, ASTM C 920, for vertical and horizontal joints, modulus as required for application, exterior and interior use.
2. Latex Joint Sealants:
a. Acrylic Type: Acrylic-emulsion, ASTM C 834.
b. Silicone Type: Silicone emulsion, ASTM C 834, and ASTM C 920.
c. Application: Interior joints in vertical and overhead surfaces with limited movement.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Test sealant adhesion for each substrate required.
3. Install in proper relation with adjacent work.
4. Clean adjacent surfaces coated with sealant immediately.



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REVISIONS:

- 1. Silicone Elastomeric Joint Sealants:
a. Type and Application: One-part nonacid-curing silicone sealant, ASTM C 920, for vertical and horizontal joints, modulus as required for application, exterior and interior use.
2. Latex Joint Sealants:
a. Acrylic Type: Acrylic-emulsion, ASTM C 834.
b. Silicone Type: Silicone emulsion, ASTM C 834, and ASTM C 920.
c. Application: Interior joints in vertical and overhead surfaces with limited movement.

JOB NO: 14013

SPECIFICATIONS

A0.1
DATE: 09.11.14

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

- Summary
1. Provide Steel Doors and Frames:
a. Exterior doors and frames.
Submittals:
1. Submit product data, shop drawings.
Products:
1. Products: As selected by Architect complying with the following.
2. Standards: ANSISDI-100, Recommended Specifications for Standard Steel Doors and Frames.
3. Fire-Rated Assemblies: NFPA 80, and acceptable testing agency listing.
4. Steel Doors: Standard seamless steel doors with hollow or composite construction.
a. Exterior Doors: ANSISDI-100, Grade III, extra-heavy-duty, minimum 16 gage galvanized sheet steel, 1-3/4 inches thick.
5. Steel Frames:
a. Material: Sheet steel, mitered or coped corners.
1) 14 gage for frames wider than 3 feet.
2) 16 gage.
6. Exterior Frames: Welded type.
c. Material: Galvanized sheet steel, mitered or coped corners.
1) 16 gage.
7. Accessories: Door slencers and plaster guards.
e. Finish: Factory primed and field painted.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with SDC-100, and NFPA 80 for fire-rated assemblies.

SECTION 08120 - ALUMINUM DOOR AND SIDELIGHT FRAMES

- Summary
1. Provide aluminum door and sidelight frames.
Submittals:
1. Submit product data, shop drawings.
Products:
1. Products: Kawneer, Series 260 Insulated or equal.
Installation:
1. Anchor securely in place, install plumb, level and in true alignment.
2. Coordinate with hardware and fabricate frames to receive specified hardware.
3. Coordinate with glass and glazing work.
4. After installation of doors and hardware, adjust clearances and operating parts such that parts will operate properly and not bind.

SECTION 09411 - ALUMINUM-FRAMED STOREFRONTS

- Summary
1. Provide Aluminum Entrances and Storefront:
a. Exterior entrance doors.
b. Frames for entrances.
c. Storefront type framing system.
d. Transoms.
e. Sidelights.
Submittals:
1. Submit product data, shop drawings.
Products:
1. Products: As selected by Architect complying with the following.
2. Door Style: Medium stile and rail doors.
3. Storefront Frames: Non Thermal break type.
4. Aluminum Members: ASTM B 221, B 209 and B 211.
5. Steel Reinforcement: ASTM A 36, ASTM A 511, and ASTM A 570.
6. Glass and Glazing: Insulating.
7. Glass and Glazing: Tempered.
8. Glazing Color: Tinted.
9. Door Hanging Devices: Offset pivot sets.
10. Door Hanging Devices: Center pivot sets.
11. Door Hanging Devices: Ball bearing hulis.
12. Closers: Concealed.
13. Closer Operation: Single acting closers.
14. Hardware: Push/pulls, door stops, overhead holders, and deadlocks, weatherstripping and thresholds, exit devices.
15. Aluminum Finish: Clear anodized.
16. Aluminum Finish: Color anodized.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Anchor securely in place; install plumb, level and in true alignment.
3. Isolate dissimilar metals.
4. Coordinate with glazing work and hardware requirements.

SECTION 09520 - ALUMINUM WINDOWS

- Summary
1. Provide aluminum windows.
Submittals:
1. Submit product data, samples, shop drawings, mockup, test reports, warranty, maintenance data.
Products:
1. Products: As selected by Architect complying with the following.
2. Aluminum Windows:
a. Window Operation: Fixed.
b. Window Grade, AAMA 101: Commercial grade.
c. Glazing: Insulating glass:
2) 1 inch thick.
d. Glazing Color: Tinted.
e. Construction: Thermal break type.
f. Aluminum Window Members: Aluminum extrusions.
g. Anchors, Clips, and Window Accessories: Aluminum, nonmagnetic stainless steel, or galvanized steel.
h. Aluminum Finish: Clear anodized.
i. Aluminum Finish: Color anodized.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.

SECTION 09710 - DOOR HARDWARE

- Summary
1. Provide hardware for swinging doors.
2. Comply with code and accessibility requirements.
Submittals:
1. Submit product data, samples, proposed hardware schedule, maintenance data.
Products:
1. Products: Per Landlord's lease requirement with tenant.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with DHS "Recommended Locations for Builder's Hardware" and hardware manufacturers' instructions.
3. Refer to the door schedule for hardware sets.

SECTION 09720 - POWER DOOR OPERATORS

- Summary
1. Provide door operators for power assisted doors.
Submittals:
1. Submit product data, hardware schedule, maintenance data.
Products:
1. Products: As selected by Architect complying with the following.
2. Products: Refer to Section 01030 - Allowances.
3. Power Units: Biparting sliding door type.
4. Operator: Electromechanical operator.
5. Operator: Hydraulic operator.
6. Operator: Pneumatic operator.
7. Automatic Door Control: Scanning motion detector.
8. Automatic Door Control: Infrared motion detector.
9. Automatic Door Control: PhotoCell automatic controls.
10. Manual Door Control: Rail supported switch.
11. Auxiliary Material: Guide rails, wall push plate switch.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.

SECTION 09800 - GLAZING

- Summary
1. Provide glass and glazing for units not factory glazed.
Submittals:
1. Submit product data, samples, shop drawings, warranty, maintenance data.
Products:
1. Products: As selected by Architect complying with the following.
2. Glass:
a. Sealed Insulating Glass Units: ASTM E 774, Class A.
b. High Performance Coatings: Low e (low emissivity) type.
3. Glazing: Elasticomeric glazing sealant glazing.
4. Glazing: Preformed glazing tape glazing.
5. Setting blocks, spacers, and compressible filler rods.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with FGMA Glazing Manual and manufacturer's recommendations.

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD ASSEMBLIES

- Summary
1. Provide Gypsum Board Assemblies:
a. Interior walls, partitions, and ceilings for tape and joint compound finish.
2. Gypsum Board Attachment:
a. Gypsum board screw-attached to steel framing and furring.
Submittals:
1. Submit product data, 4 foot by 4 foot mockup showing joint treatment.
Products:
1. Products: As selected by Architect complying with the following.
2. Gypsum Board:
a. Gypsum Wallboard: ASTM C 26, regular, foil-backed, and fire-rated types:
1) 1/2 inch typical thickness.
2) 5/8 inch typical thickness.
b. Water Resistant Gypsum Backing Board: ASTM C 630, regular and fire-rated types:
1) 1/2 inch typical thickness.
2) 5/8 inch typical thickness.
c. Exterior Gypsum Soffit Board: ASTM C 631, regular and fire-rated types:
1) 1/2 inch typical thickness.
2) 5/8 inch typical thickness.
d. Joint Treatment: ASTM C 478 and ASTM C 640, 3_coat system.
e. Installation Standard: ASTM C 640.
3. Trim Accessories:
a. Material: Metal or plastic.
b. Types: Cornerbead, edge trim, and control joints.
4. Steel Framing for Walls and Partitions:
a. Steel Studs and Runners: ASTM C 645:
1) 20 gage (.0329 inch)
2) 22 gage (.0276 inch)
3) 25 gage (.0179 inch)
b. Typical Depth:
1) 3 5/8 inch
2) 6 inch.
c. Auxiliary Materials:
a. Gypsum board screws: ASTM C 1002.
b. Fastening adhesive.
c. Concealed acoustical sealant.
d. Mineral fiber sound attenuation blankets.
e. Mineral fiber thermal insulation.

- Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Comply with standards referenced above and ASTM C 640 and GA 216.
3. Install joints only over framing members. Do not allow butt-to-butt joints.
4. Provide blocking for items such as railing, grab bars, caecrow, toilet accessories, and similar items.
5. Provide acoustical sealant at runner tracks, wall perimeters, openings, expansion, and control joints.
6. Install gypsum board assemblies true, plumb, level and in proper relation to adjacent surfaces.
7. Where new partitions meet existing construction, remove existing cornerbeads to provide smooth transition.
8. Provide 3-coat joint treatment such that, after finishing, joints are not visible.
a. Sand and leave ready for finish painting and wall treatment.

SECTION 09910 - PAINTING

- Summary
1. Provide painting and surface preparation for interior and exterior finished/unfinished surfaces.
Submittals:
1. Submit product data, samples, 1 foot by 4 foot mockup of each color, extra stock consisting of 1 unpainted gallon of each type of paint used.
Products:
1. Products: Sherwin Williams or approved equal.
2. Regulations: Compliance with VOC and environmental regulations.
Installation:
1. Comply with requirements of Section 01000 - Project Requirements.
2. Provide field-applied mock-ups of each color and finish selected on actual surfaces to be painted.
3. Test sample area for adhesion for each type of paint.
4. Remove cover plates and protect hardware and adjacent surfaces.
5. Sand before painting until smooth and flat and sand between coats.
6. Apply paint to achieve manufacturer's recommended dry film thicknesses.
7. Paint entire surface where patch painting is required.
8. Recoat areas which show bleed-through or defects.
9. Clean paint spatter from adjacent surfaces and glass.
10. Touch-up damaged surfaces at completion of construction.

- Schedule:
1. Provide paint systems complying with the following schedule.
2. Gypsum Drywall Walls:
a. Glass:
1) Seal.
b. System:
1) 1 coat latex primer
2) 2 coats latex finish
3. Ferrous Metals:
a. Glass:
1) Flat.
b. System:
1) 1 coat rust-inhibiting primer
2) 2 coats alkyd enamel
4. Galvanized Metal:
a. Glass:
1) Flat.
b. System:
1) 1 coat galvanized metal primer
2) 2 coats alkyd enamel

DIVISION 15 - MECHANICAL - REFERENCE MEP DOCUMENTS

DIVISION 16 - ELECTRICAL - REFERENCE MEP DOCUMENTS



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REVISIONS:

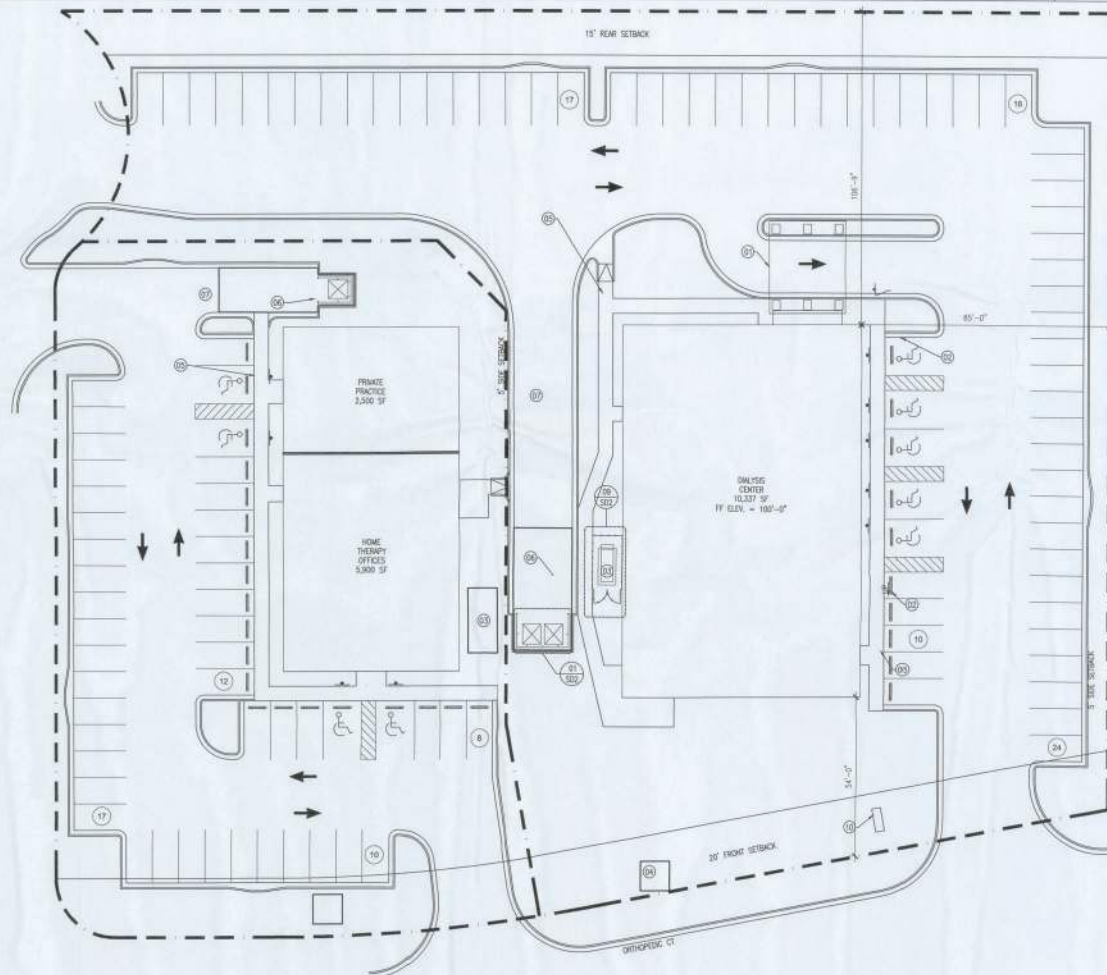
JOB NO: 14013

SPECIFICATIONS

A0.2

DATE: 09.11.14

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|--|--|--|--|---|--|
| | | | <p>KEYED NOTES (DENOTED BY 100):</p> <ol style="list-style-type: none"> 01. DROP-OFF CANOPY 02. ZERO CURB TO SIDEWALK BETWEEN ACCESSIBLE RAMPS. 03. GENERATOR AND ENCLOSURE, RE: ELECTRICAL. 04. PROPOSED TRANSFORMER LOCATION; COORDINATE WITH UTILITY COMPANY. 05. 5'-0" SIDEWALK WIDTH. 06. MINIMUM 6'-0" IN FRONT OF DUMPSTER TO BE REINFORCED CONCRETE. 07. DELIVERY LAKE. 08. ZERO CURB AT PATIENT DROP-OFF. 09. DELIVERY RAMP; ZERO CURB BETWEEN RAMPS. 10. MONUMENT SIGN. PROVIDE REQUIRED CONDUIT AND POWER BACK TO HOUSE PANEL (OR PANEL AS DESIGNATED BY ELECTRICAL). FINAL MONUMENT SIGN DIMENSIONS TO BE DETERMINED. | <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1. DO NOT SCALE DRAWINGS. 2. ALL SUBGRADE FOR NEW SLABS, PARKING AND DRIVE AREAS SHALL BE COMPLETED PER REQUIREMENTS IDENTIFIED IN GEOTECHNICAL REPORT. 3. COORDINATE STAGING, AERIAL STORAGE AREAS, BUILDING ACCESS AND FIRE LANE CONTINUED WITH OWNER AND AUTHORIZED JURISDICTION. 4. COORDINATE ANY REQUIRED UTILITY SHUT-DOWN WITH OWNERS AND ANY OTHER AFFECTED PARTIES FOR SCHEDULING AND APPROVAL. 72 HOURS MINIMUM PRIOR TO COMMENCING SHUT-DOWN. 5. ARCHITECTURAL SITE PLAN FOR GENERAL INFORMATION. SETTO CIVIL FOR BASIC DIMENSION CONTROL. IN CONJUNCTION WITH ANY SPECIAL ENGINEERING NOTED ON THIS ARCHITECTURAL SITE PLAN. 6. REFER GEOTECHNICAL REPORT PREPARED BY ELLS & ASSOCIATES, DATED MAY 28, 2014 (E&A PROJECT NO. 4391-0001). | |
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01 ARCHITECTURAL SITE PLAN
 SCALE: 1" = 20'-0"



REVISIONS:

JOB NO: 14013

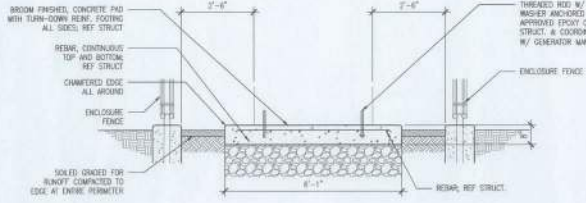
ARCHITECTURAL SITE PLAN

SD1

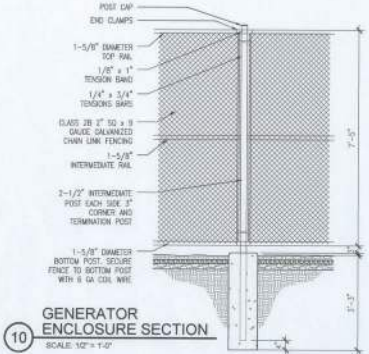
DATE: 09.11.14

NOTES:

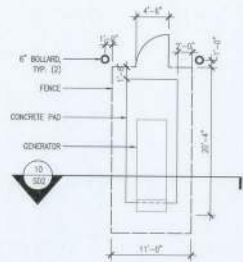
- PROMOTE DOUBLE LEAF SWING GATE WITH POST LATCH AND LOCK AND KEY. GATE SHALL BE 9'-0" WIDE X 11'-0" HIGH GALVANIZED MATERIAL THROUGHOUT. REFER TO PLAN FOR LOCATION.
- PROMOTE FULL-HEIGHT VINYL PRIVACY SLATS (COLOR/BLACK) WITHIN CHAIN LINK FENCE. HENRY COLOR AND STYLE WITH ENVELORED AND PVC PROJECT MANAGER.
- POSTS SHALL BE STANDARD HEIGHT SCHEDULE 40 GALVANIZED STEEL.



11 GENERATOR ENCLOSURE DETAILS
SCALE: 1/2" = 1'-0"

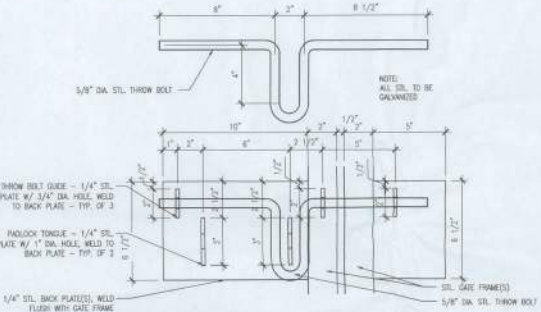


10 GENERATOR ENCLOSURE SECTION
SCALE: 1/2" = 1'-0"

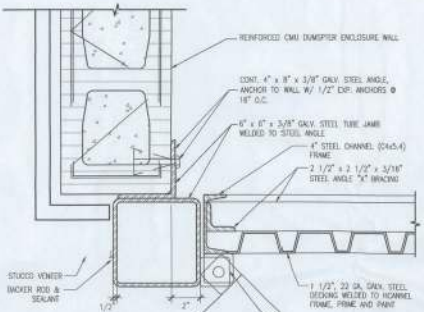


09 GENERATOR PLAN
SCALE: 1/8" = 1'-0"

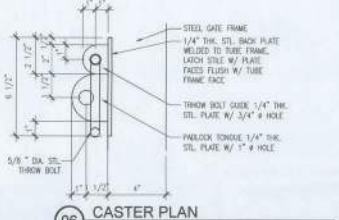
12 GENERATOR NOTES
NOTES



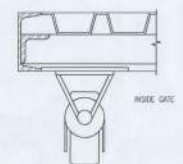
08 THROW BOLT DETAIL
SCALE: 3/4" = 1'-0"



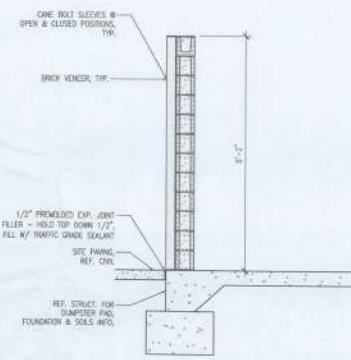
07 ENCLOSURE DETAIL
SCALE: 3/4" = 1'-0"



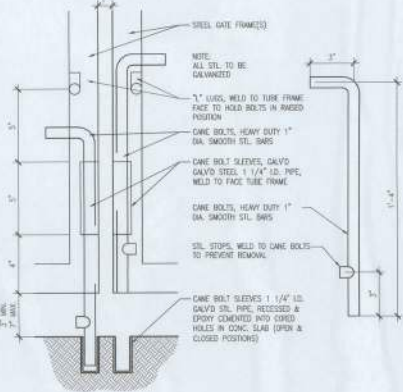
06 CASTER PLAN
SCALE: 3/4" = 1'-0"



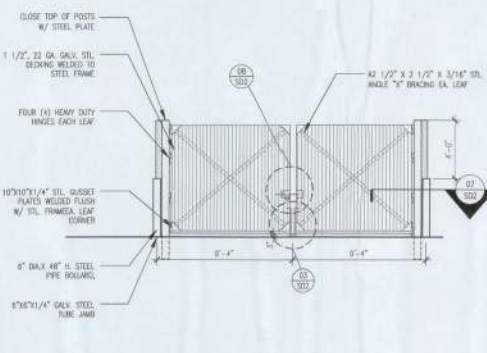
05 CASTER PLAN
SCALE: 3/4" = 1'-0"



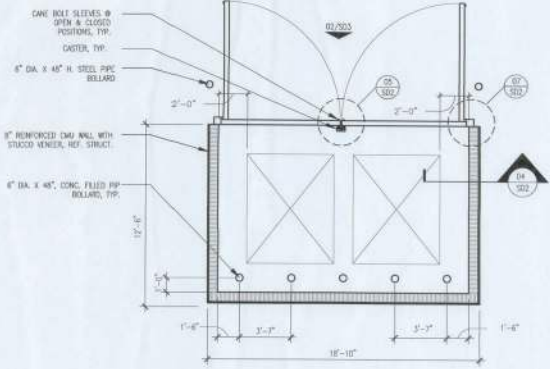
04 ENCLOSURE WALL SECTIONS
SCALE: 1/2" = 1'-0"



03 BOLT DETAIL
SCALE: 3/4" = 1'-0"

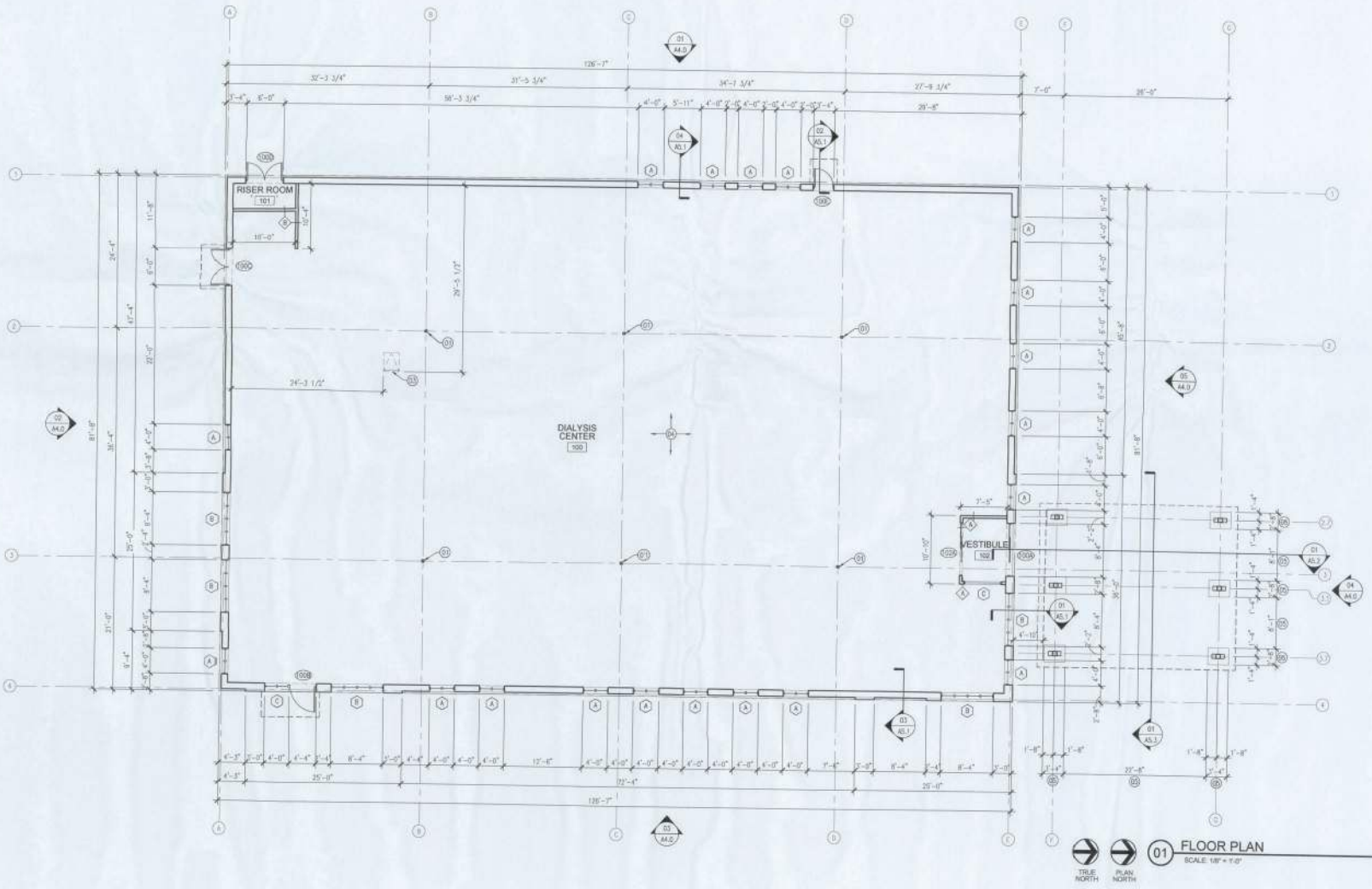


02 ENCLOSURE ELEVATION
SCALE: 1/8" = 1'-0"



01 DUMPSTER PLAN
SCALE: 1/8" = 1'-0"

| | | | | |
|--|---|--|--|--|
| | <p>KEYED NOTES (DENOTED BY Ⓢ):</p> <ol style="list-style-type: none"> 01. COLUMN TYPICAL, REFER STRUCTURAL. 02. 3" FORM PANEL. 03. ROOF ACCESS LADDER AND HOOD, ACCESS LADDER AND ASSOCIATED ANCHORS SHALL MEET ALL APPLICABLE OSHA STANDARDS, AS WELL AS THOSE OF ANY OTHER AIA FOR THIS PROJECT. COORDINATE FINAL ROOF PITCH AND ACCESS LADDER LOCATION WITH GENERAL CONTRACTOR. 04. CONCRETE FLOOR SLAB TO BE TREATED WITH CONCRETE CURING COMPOUND (PRETRESOL CS2000). 05. DIMENSION FROM FACE OF CMU SUB WALL. | <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1. DO NOT SCALE DRAWINGS. 2. GRIDLINES INDICATE CENTERLINE OF COLUMNS. 3. ALL DOOR THRESHOLDS AND SILL SHALL BE SET IN A FULL BED OF MORTAR. 4. SEAL ALL PENETRATIONS IN RATED WALLS WITH SEALANT/SYSTEM APPROPRIATE FOR CONDITION AND SIZING REQUIRED. 5. ALL INSULATION SHALL MEET ALL REQUIRED CODE RATINGS FOR FLAME SPREAD AND SMOKE DEVELOPMENT, INCLUDING FOR FACINGS. 6. DIMENSIONS ON PLAN ARE FROM FACE OF EXTERIOR FINISH MATERIAL (O.F.S.) FROM CENTERLINE OF COLUMN FROM FACE OF INTERIOR CIP. 7. HOLD CIP. NO. 1/2" ABOVE FLOOR AS ALLOWED BY CODE, TYPICAL. 8. FIELD VERIFY ALL OPENINGS PRIOR TO FABRICATION OF WINDOW UNITS. 9. REFER WALL SECTIONS FOR EXTERIOR WALL CONFIGURATIONS. 10. ALL EXPOSED EXTERIOR METAL COMPONENTS SHALL BE PAINTED, PRIOR TO FINISHING METAL SURFACES SHALL BE REWORKED/GRIND SMOOTH AS NECESSARY TO ELIMINATE BURRS, SHARP EDGES, OR ANY OTHER CONDITION THAT POSSESS HAZARD TO GENERAL PUBLIC. CONFIRM REQUIRED TREATMENT WITH ARCHITECT. 11. MINIMIZE R-30 INSULATION AT ALL EXTERIOR WALL ASSEMBLIES, INCLUDING TOWER WALLS, COORDINATE INSULATION WITH RISER STUB FURRING. (NOTE: INTERIOR STUB FURRING IN FIXED LOCATION PER TOWER TRASH OUT). | <ol style="list-style-type: none"> 12. COORDINATE FIRE-FABRICATED CANOPY HANGERS WITH ANCHOR WELDS ABOVE WINDOWS HANGERS AND ASSOCIATED ANCHOR PLATES SHALL BE LOCATED ABOVE ARCHES - SHOP DRAWINGS SHOWING HANGERS THIS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW. 13. REFER GEOTECHNICAL REPORT PREPARED BY ELLIS & ASSOCIATES, DATED MAY 26, 2014 (E&A PROJECT NO. 4391-0001). | <p>WALL TYPE LEGEND (DENOTED BY Ⓢ):</p> <p>TYPE A 3-1/2" METAL STUDS WITH 5/8" CIP. NO. BOTH SIDES.</p> <p>TYPE B ONE-HOUR RATED WALL SEALED TO UNDERSIDE OF ROOF DECK: 6" METAL STUDS @ 12" O.C. WITH 5/8" CIP. NO. EACH SIDE (Basis of Design IS 16-11415).</p> |
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Lake City, FL

REVISIONS:

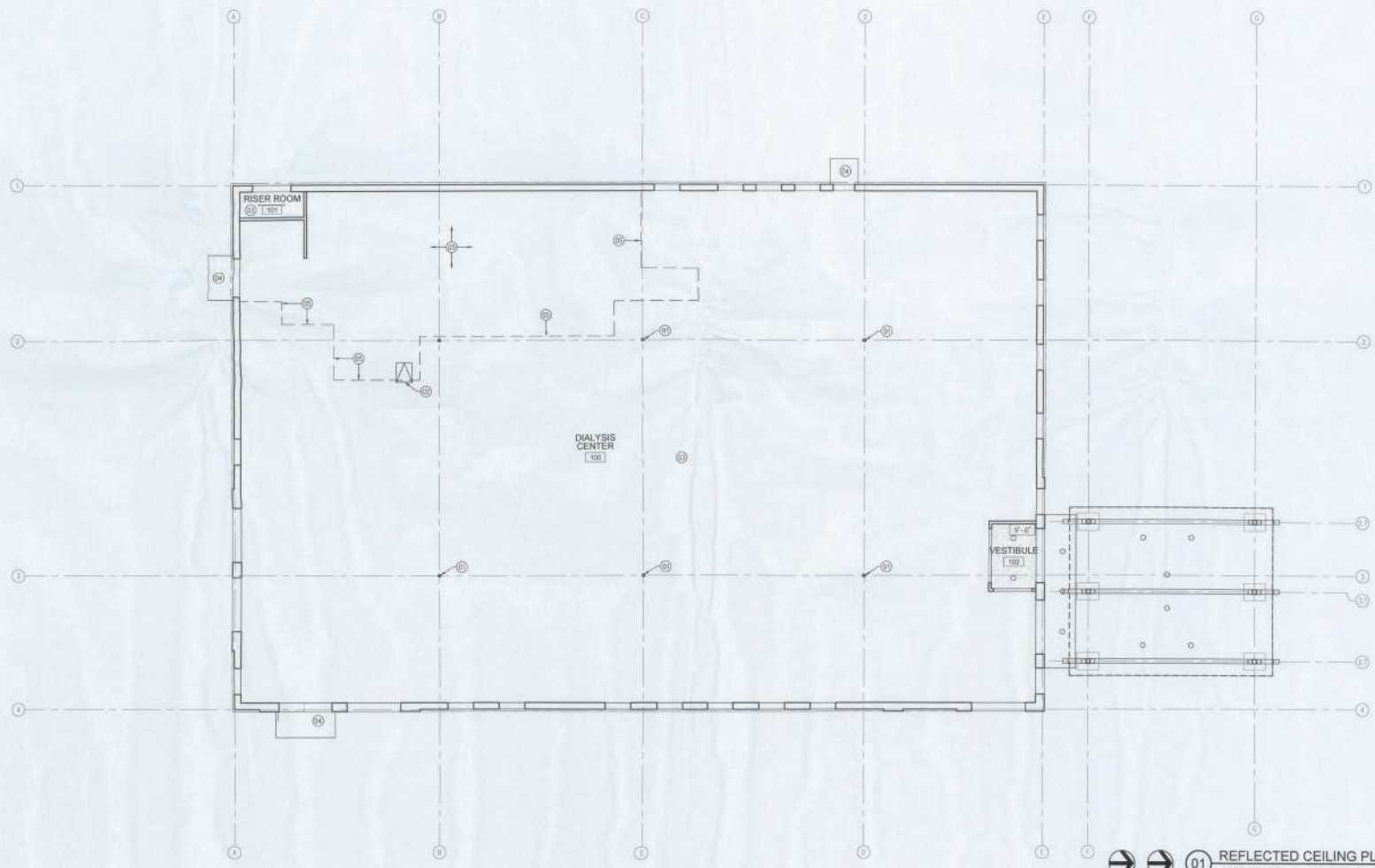
JOB NO: 14013

FLOOR PLAN

A1.1

DATE: 09.11.14

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| | | | <p>KEYED NOTES (DENOTED BY "C"):</p> <p>01. COLUMN TYPICAL.</p> <p>02. ROOF ACCESS LADDER AND HATCH.</p> <p>03. OPEN TO STRUCTURE ABOVE.</p> <p>04. PROVIDE ANNEX OR APPROVED EQUAL - INTEGRATED LIGHTING.</p> <p>05. AREA WITH DASHED LINE IS OPEN TO STRUCTURE PER 3-D PLAN. PROMOTE FOL-TAGS REGULATION BY USING BATT AT UNDERSIDE OF DECK TO ACHIEVE REQUIRED R-VALUE. FOL TAGS TO BE FOR TYPE.</p> | <p>GENERAL NOTES:</p> <p>1. DO NOT SCALE DRAWINGS.</p> | <p>REFLECTED CEILING PLAN LEGEND:</p> <p>— 1X1 SUSPENDED FIXTURE</p> <p>○ RECESSED DOWNLIGHT</p> <p>□ C.E. CEILING, 5/8" C.B.</p> <p>⊠ (X-30°) CEILING HEIGHT SYMBOL</p> |
|--|--|--|--|---|---|





01 REFLECTED CEILING PLAN
 SCALE 1/8" = 1'-0"



REVISIONS:

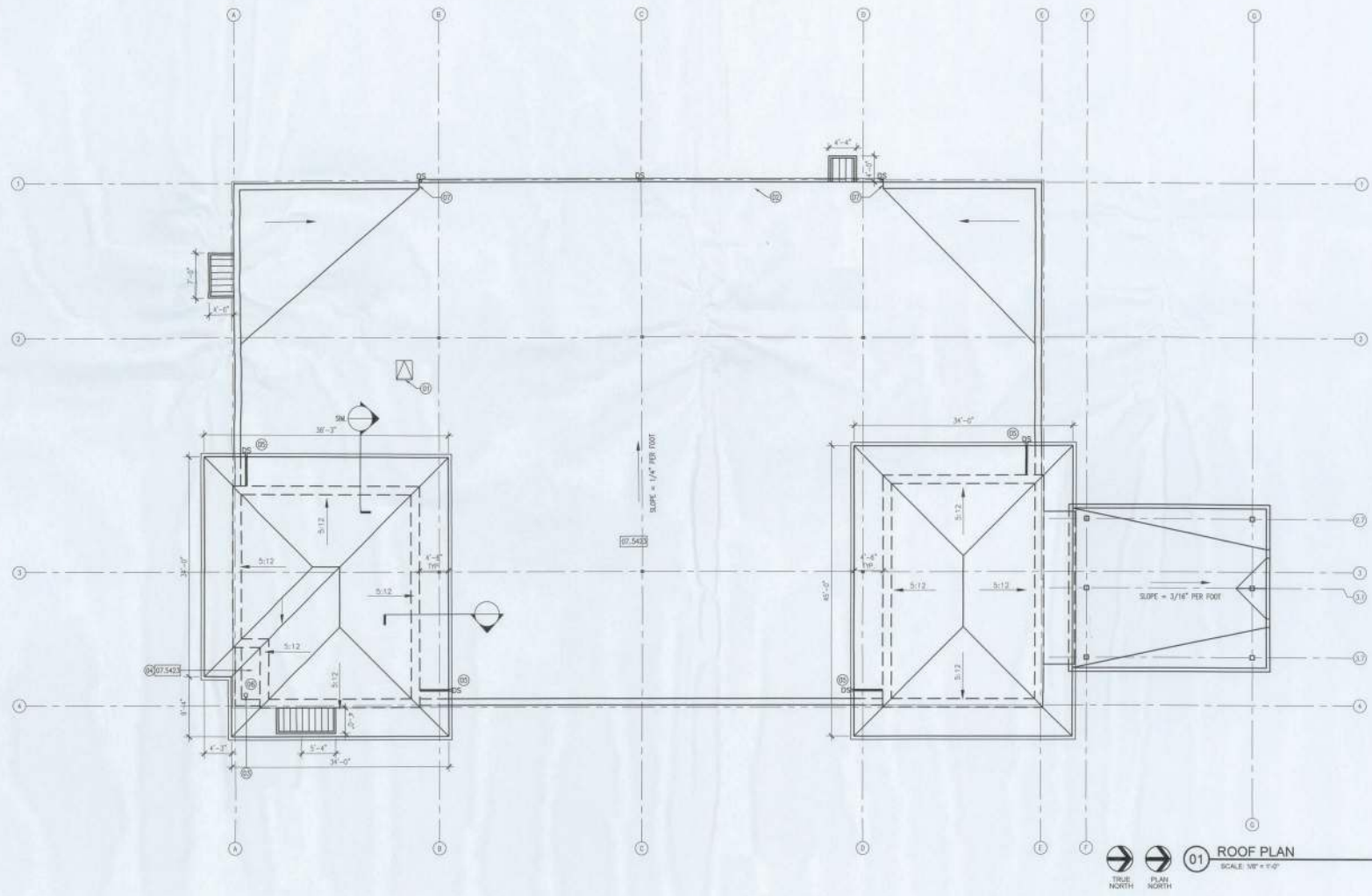
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REFLECTED CEILING PLAN

A2.1

DATE: 09.11.14

| | | | | | |
|--|--|--|---|--|---|
| | | | <p>SPECIFICATION NOTES:</p> <p>07.5422 TPO MEMBRANE ROOFING SYSTEM</p> | <p>KEYED NOTES (DENOTED BY ○):</p> <ol style="list-style-type: none"> 1. ROOF ACCESS LADDER AND HATCH. 2. COORDINATE ROOFING TERMINATION AND GUTTER SYSTEM WITH WALL/ROOF FRAMING. 3. 4" x 8" ROOF DRAIN. 4. FLAT ROOF BELOW PITCHED ROOF. 5. DRAINS TO FLAT ROOF, PROVIDE SPLASH BLOCK ON TPO WEAR PADE. 6. PROVIDE OVERFLOW SCUPPER FOR FLAT ROOF AREA (BELOW PITCHED ROOF). 7. PROVIDE CONTINUOUS TERMINATION BAR, ROOFING ADHESIVE AND SEALANT AT TPO EDGE TERMINATIONS, BOTH HORIZONTAL AND VERTICAL. | <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1. DO NOT SCALE DRAWINGS. 2. PROVIDE TPO ROOF SYSTEM WITH A 15-YEAR NO-DOLLAR-LIMIT WARRANTY. 3. PROVIDE A MINIMUM R-40 INSULATION AT ALL ROOF ASSEMBLIES, INCLUDING HIGH ROOF AT CORNER POWER ELEMENTS. 4. ALL COMPONENTS OF THE GUTTER AND DOWNSPOUTS INCLUDING FORTIFLEX LAPS, EXPANSION JOINTS, AND SUPPORTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, IN CONJUNCTION WITH DETAILS AS PROVIDED. |
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01 ROOF PLAN
 SCALE: 1/8" = 1'-0"



REVISIONS:

JOB NO: 14013

ROOF PLAN

A3.0

DATE: 09.11.14

SPECIFICATION NOTES:

- 03.314 SITE-CAST CONCRETE SLAB (RE: STRUCTURAL)
- 03.315 SITE-CAST CONCRETE FOUNDATION (RE: STRUCTURAL)
- 03.488 FIBER REINFORCED CONCRETEOUS FACIA
- 04.2201 8" CMU (RE: STRUCTURAL)
- 04.2202 12" CMU (RE: STRUCTURAL)
- 05.1221 HSS FRAMING (RE: STRUCTURAL)
- 05.2211 OPEN WEB STEEL JOIST FRAMING (RE: STRUCTURAL)
- 05.3123 STEEL ROOF BECKING (RE: STRUCTURAL)
- 05.4124 4" COLD-FORMED METAL FRAMING 14" O.C. (W45)
- 05.4126 8" COLD-FORMED METAL FRAMING 14" O.C. (W45)
- 05.5201 STEEL PLATE (RE: STRUCTURAL)
- 05.5203 STEEL PLATE SABLE (RE: STRUCTURAL)
- 05.7201 EXTRUDED ALUMINUM BRACKET
- 06.1084 2X WOOD BLOCKING
- 06.1833 1/2" PLYWOOD SHEATHING

- 06.1829 1/4" PLYWOOD SHEATHING
- 07.6201 PRE-FINISHED METAL COUNTERFLASHING
- 07.2111 POLYISOCYANURATE INSULATION
- 07.2118 BLANKET INSULATION (FULL CAVITY DEPTH)
- 07.2818 BELOW GRADE VAPOR BARRIER (15M)
- 07.2719 PLASTIC SHEET AIR BARRIER
- 07.3101 ARCHITECTURAL DIMENSIONAL SHINGLE SYSTEM
- 07.5421 EPDM MEMBRANE ROOFING SYSTEM
- 07.6202 30 GA. PRE-FINISHED METAL COILING
- 07.6311 30 GA. PRE-FINISHED METAL OUTER SYSTEM
- 07.6312 30 GA. PRE-FINISHED METAL THROUGH-WALL SCUPPER
- 07.6203 CONTINUOUS SEALANT
- 08.4113 ALUMINUM FRAMED ENTRY DOOR/SCREEN/FRONT

- 09.2201 STUCCO SYSTEM DRIP SCUPPER
- 09.2421 1/4" PORTLAND CEMENT STUCCO SYSTEM
- 09.182X FINISHED SIDEWALK

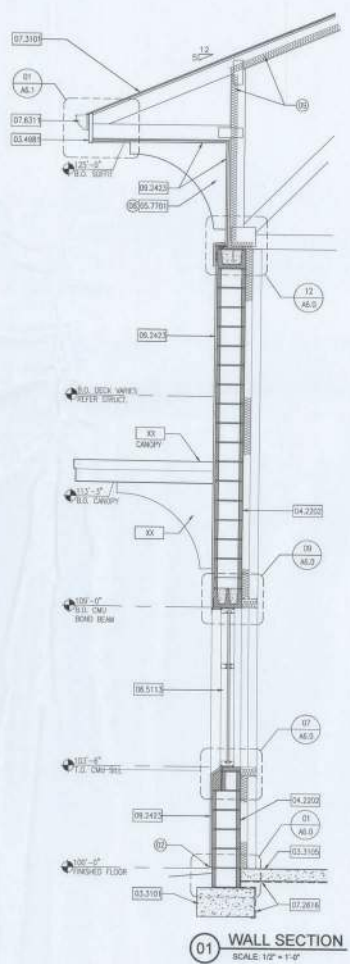
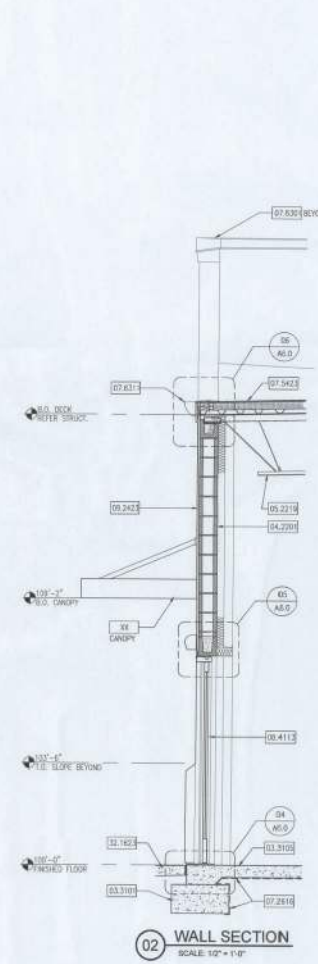
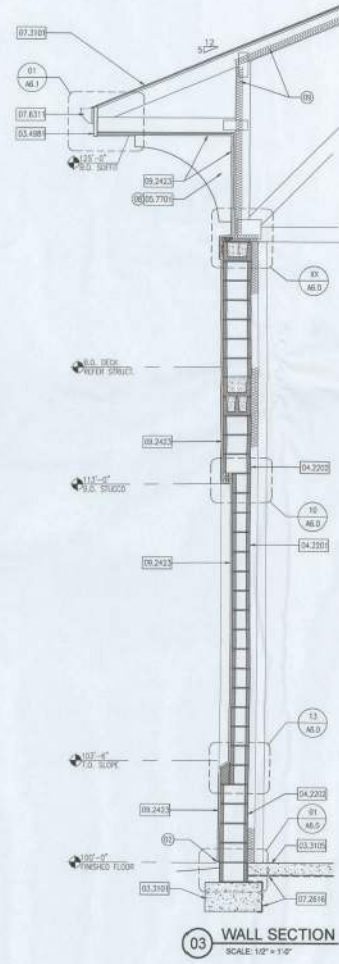
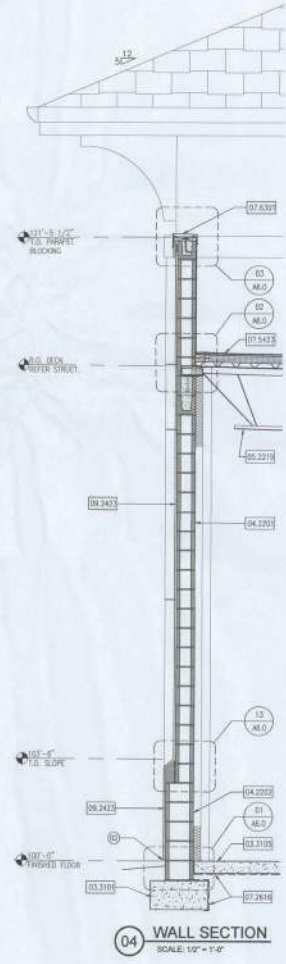
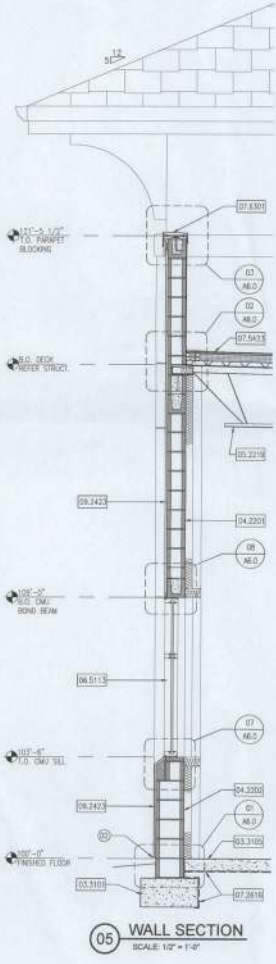
KEYED NOTES (DENOTED BY "X"):

01. STUD INFILL BETWEEN HSS STUD COLUMNS.
02. COORDINATE WITH MANUFACTURER'S RECOMMENDATION FOR TERMINATION ABOVE GRADE.
03. WELD/FILL HORIZONTAL SEAM/Joint BETWEEN HSS MEMBERS. GRIND SMOOTH SO JOINT NOT VISIBLE UPON PAINTING.
04. WELD/FILL HORIZONTAL JOINT BETWEEN HSS COLUMN AND PLATE FOR WATER-TIGHT CONDITION. GRIND FOR CONSISTENT APPEARANCE WITH ADJACENT COLUMNS & PLATE.
05. TO OUTSIDE FACE OF STUD FRAMING/HSS PERIMETER BEAM.
06. TO END OF COMPOSITE HSS OUTRIGGER.
07. PROVIDE BLOCKING/ROCK-UP IF REQUIRED FOR ANCHORAGE AND/OR STABILITY OF LOWER PORTION OF STUD. BLOCK INCLUDE BLOCKING/ROCK-UP IN BASE BID IF DEEMED NECESSARY.
08. REFER MANUFACTURER'S REQUIREMENTS FOR ANCHORAGE AND ASSOCIATED BLOCKING.
09. CONTINUE INSULATION @ TOWER PERIMETER WALLS AND ROOF. TOWER WALLS AND ROOF INSULATION R-VALUES SHALL BE THE SAME AS MAIN BUILDING STRUCTURE.
10. COORDINATE SCUPPER WITH PARAPET WALL FRAMING AND EPDM ROOF SYSTEM.
11. LAP AIR BARRIER OVER FLASHING.

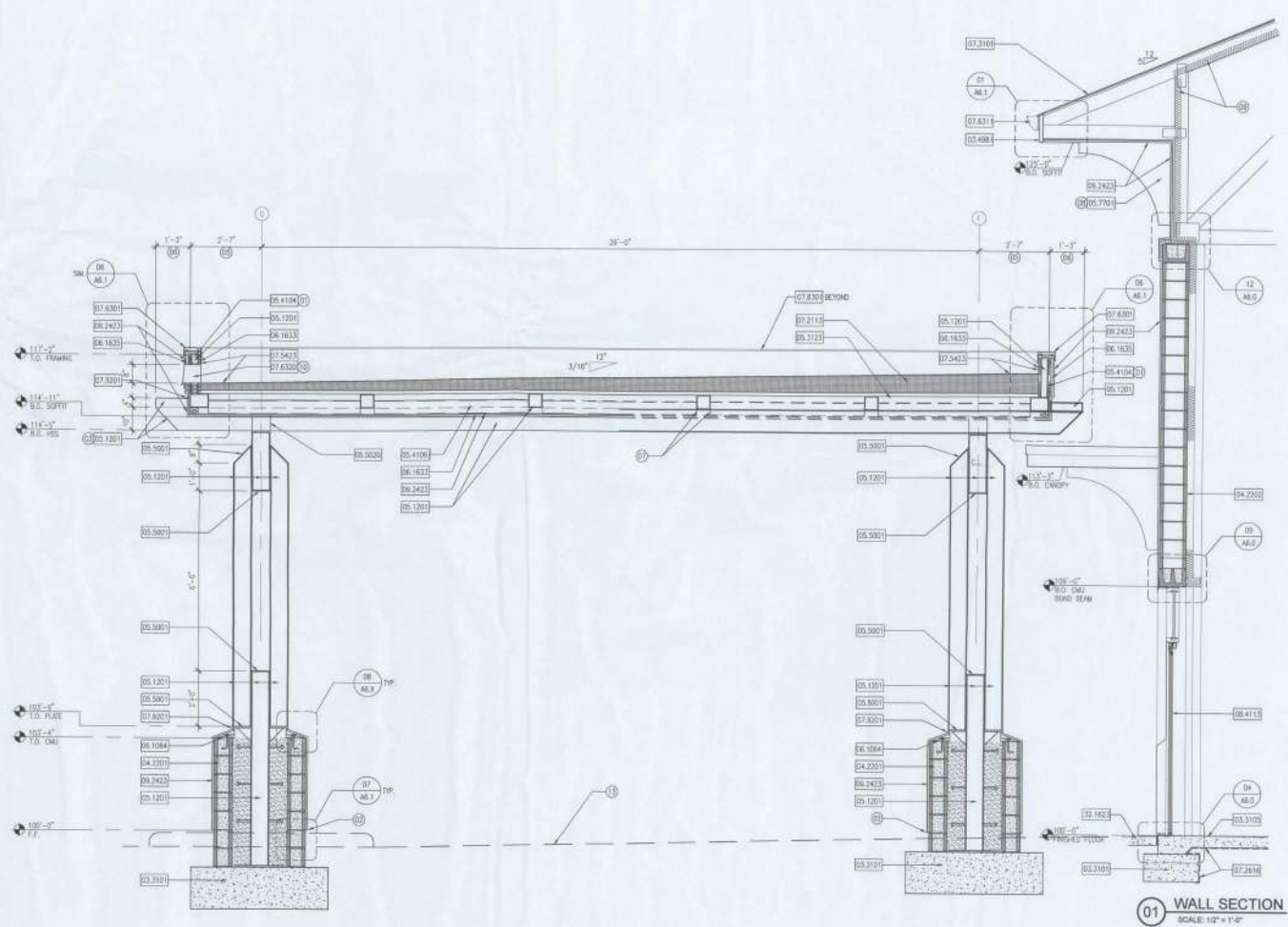
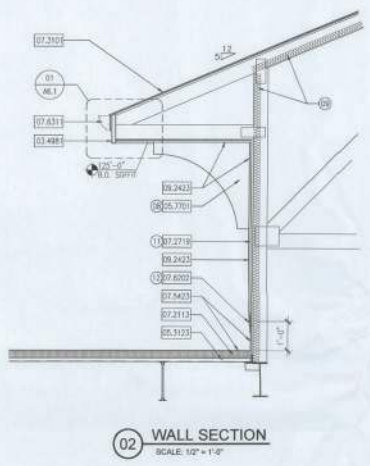
12. COORDINATE COUNTERFLASHING WITH TPO TERMINATION UNIT AND STUCCO WEEP SCUPPER.
13. REFER CHL FOR FLASHING/DRIVEWAY GRACES.

GENERAL NOTES:

1. REFER TO SHEETS A1.1, A2.1, A3.0 AND A4.0 FOR ADDITIONAL GENERAL NOTES.
2. REFER SHEET A4.0 FOR EXTERIOR MATERIAL NOTES.
3. ALL OPEN ENDS OF HSS BEAMS SHALL BE CAPED WITH STEEL PLATE. WELD AND GRIND SMOOTH FOOT FOR PAINTING.



| | | | |
|--|---|--|---|
| | <p>KEYED NOTES (DENOTED BY Ⓢ)</p> <ol style="list-style-type: none"> STUD IN-FILL BETWEEN HSS TOWER COLUMNS. COORDINATE WITH MANUFACTURER'S RECOMMENDATION FOR TERMINATION WELD SIZE. MILK/TELL HORIZONTAL SEAM/Joint BETWEEN HSS MEMBERS; GRIND SMOOTH TO JOINT NOT VISIBLE UPON PAINTING. MILK/TELL HORIZONTAL JOINT BETWEEN HSS COLUMN AND PLATE FOR WELD-UP CONDITION; GRIND FOR CONSISTENT APPEARANCE WITH ADJACENT COLUMN & PLATE. TO OUTSIDE FACE OF STUD FRAMING/HSS PERIMETER BEAM. TO END OF COMPOSITE HSS OUTRIGGER. PROVIDE BLOCKING/BACK-UP IF REQUIRED FOR ANCHORAGE AND/OR STABILITY OF LOWER PORTION OF STUD TRACK; INCLUDE BLOCKING/SPOCK-UP IN BASE SO IF SEEMED NECESSARY. REFER MANUFACTURER'S REQUIREMENTS FOR ANCHORAGE AND ASSOCIATED BRACING. CONTINUE INSULATION @ TOWER PERIMETER WALLS AND ROOF; TOWER WALLS AND ROOF INSULATION R-VALUES SHALL BE THE SAME AS MAIN BUILDING STRUCTURE. COORDINATE SCUPPER WITH FRAPPET WALL FINISHING AND TPO ROOF SYSTEM. LAP W/ BRIMMER OVER FLASHING. | <ol style="list-style-type: none"> COORDINATE COUNTERFLASHING WITH TPO TERMINATION BAR AND STUCCO WEEP SYSTEM. REFER CIVIL FOR FLATWORK/DRAINAGE GRADES. | <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> REFER TO SHEETS A5.1, A5.1, A5.0 AND A5.0 FOR ADDITIONAL GENERAL NOTES. REFER SHEET A4.0 FOR EXTERIOR MATERIAL NOTES. ALL OPEN ENDS OF HSS BEAMS SHALL BE CAPED WITH STEEL PLATE; WELDED AND GRIND SMOOTH READY FOR PAINTING. |
|--|---|--|---|



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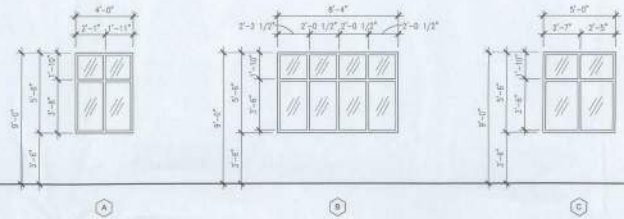
LAKE CITY WEST
FMC DIALYSIS CLINIC
FREEMANUS MEDICAL CARE
Orthopaedic Ct.
Lake City, FL

REVISIONS:
JOB NO: 14013
CANOPY SECTIONS
A5.2
DATE: 09.11.14

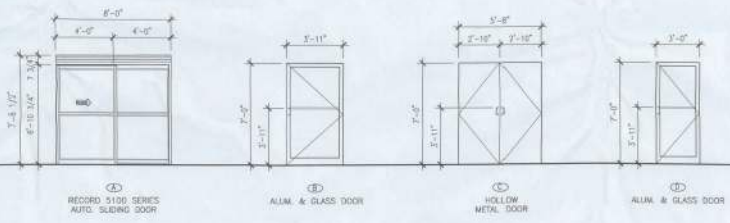
DOOR SCHEDULE

| DOOR MARK | LOCATION | DOOR SIZE | | | DOOR ELEV. | DOOR MAT. FINISH | FRAME TYPE | FRAME MAT. FINISH | HIRE INTEND. | NOTES | DETAILS | | |
|-----------|----------------|-------------|--------|--------|------------|------------------|------------|-------------------|--------------|-------|---------|------|------|
| | | WIDTH | HEIGHT | THICK. | | | | | | | HEAD | JAMB | SILL |
| 100A | MAH. ENTRY | 4'-0" | 6'-11" | A | ALUMINUM | 1 | | | | 1 | | | |
| 100B | EMERGENCY EXIT | 4'-0" | 7'-0" | B | ALUMINUM | 2 | | | | 3 | | | |
| 100C | SULFUR ENTRY | PAIR 2'-10" | 7'-0" | C | ALUMINUM | 3 | | | | 4 | | | |
| 100E | RISER ROOM | PAIR 2'-10" | 7'-0" | C | ALUMINUM | 3 | | | | 4 | | | |
| 100E | STAFF ENTRY | 3'-11" | 7'-0" | D | ALUMINUM | 4 | | | | | | | |
| 102A | VESTIBULE | 4'-0" | 7'-0" | A | ALUMINUM | 1 | | | | 1 | | | |
| *NOTES | | | | | | | | | | | | | |

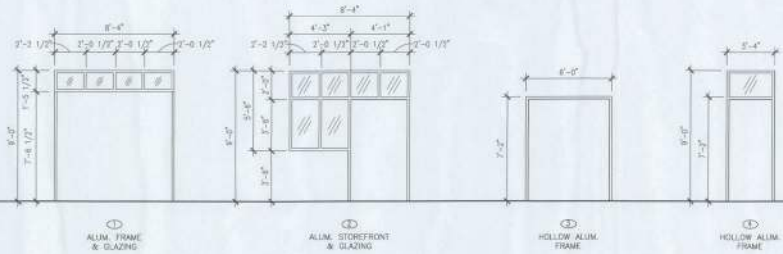
WINDOW TYPES



DOOR ELEVATIONS



DOOR FRAME & STOREFRONT TYPES



HARDWARE SCHEDULE

- SET 1 - EXTERIOR AUTOMATIC SLIDING DOOR
 PROVIDE MFR. STANDARD HARDWARE. ILC PANIC EXIT DEVICE @ BREAKOUT PANEL, CONCEALED SENSOR, WEATHERSTRIPPING PER MFR. LOCKING DEVICE PER MFR.
- SET 2 - EXTERIOR DOOR, STOREFRONT
 4 EA. BUTT HINGE - NRP
 1 EA. PANIC HARDWARE
 4 EA. PULL
 1 EACH RM CYLINDER
 1 EA. CONCEALED OVERHEAD CLOSER
 1 EA. SET - WEATHERSTRIPPING
 1 EA. THRESHOLD
- SET 3 - EXTERIOR I.H.M. EXIT DR.
 3 EA. BUTT HINGE - NRP
 1 EA. PANIC HARDWARE/PULL
 1 EACH RM CYLINDER
 1 EA. SURFACE MTD. OVERHEAD CLOSER
 1 EA. DOOR SWEEP
 1 EA. SET - WEATHERSTRIPPING
 1 EA. DRIP CAP
 1 EA. THRESHOLD
- SET 4 - EXTERIOR I.H.M. DR. - RISER
 3 EA. BUTT HINGE - NRP
 1 EA. LEVER ENTRY LOCKSET
 1 EA. OVERHEAD RESTRICTION ARM
 1 EA. DOOR SWEEP
 1 EA. SET - WEATHERSTRIPPING
 1 EA. DRIP CAP
 1 EA. THRESHOLD
 1 EA. KNOX BOX KEY LOCKER
- SET 5 - EXTERIOR I.H.M. DR. (PWR)
 3 EA./DR. BUTT HINGE - NRP
 1 EA. LEVER STORAGE LOCKSET/1 DUMMY TRIM
 1 EA. MANUA. FLUSH BOLT - INACTIVE LEAF
 1 EA./DR. SURFACE MTD. OVERHEAD CLOSER
 1 EA./DR. DOOR SWEEP
 1 EA./DR. SET - WEATHERSTRIPPING
 1 EA./DR. DRIP CAP
 1 EA. THRESHOLD

GENERAL NOTES:

- ALL ALUMINUM MILLIONS ARE ASSUMED TO BE 2" UNLESS OTHERWISE NOTED.
- ALL EXTERIOR DOORS ARE TO BE PREPARED TO TENANT'S SPECIFICATIONS TO ACCEPT ELECTRIC DOOR STRIKES, CLOSERS AND AUTOMATIC DOOR OPERATORS.

KEYED NOTES

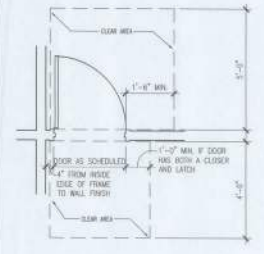
DOOR NOTES

- THRESHOLDS AT DOORWAYS, IF REVEALED, SHALL NOT EXCEED 1/2" IN HEIGHT.
- DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRIPPING, TIGHT FINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE SHALL BE MOUNTED NO HIGHER THAN 48" AFF.
- DOOR CLOSURES SHALL HAVE AT LEAST 3 SECOND SWEEP TIME FOR CLOSING.
- DOOR OPENING FORCE SHALL BE 5 LBS./FT. MAXIMUM AT INTERIOR DOORS.
- IF AN AUTOMATIC DOOR IS USED, THEN IT SHALL COMPLY WITH ANSI/ASHRA 115E-10-1985. SUCH DOORS SHALL NOT BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBS. TO STOP DOOR MOVEMENT.
- ALL DOORS SHALL HAVE SAFETY PLATE GLASS.
- IF THE CLOSEST EDGE OF GLASS IS WITHIN 12" OF DOOR, AND THE BOTTOM EDGE OF GLASS IS LESS THAN 60" ABOVE THE WALKING SURFACE, THEN SAFETY GLASS IS REQUIRED.
- IF THE CLOSEST EDGE OF GLASS IS BEYOND 12" FROM A DOOR AND ALL OF THE FOLLOWING 4 CONDITIONS EXIST, USE SAFETY GLASS:
 - A. THE EXPOSED BOTTOM EDGE IS < 18" ABOVE THE FLOOR.
 - B. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS > 9 SQ. FT.
 - C. THE EXPOSED TOP EDGE IS > 36" ABOVE THE FLOOR.
 - D. ONE OR MORE WALKING SURFACES IS WITHIN 36" HORIZONTALLY OF THE PLANE OF GLAZING.

WINDOW NOTES

- PROFILES SHOWN INDICATE BASIC OUTLINE OF PROPOSED FRAMING AS PART OF THIS CONTRACT. MFR./SUPPLIER OF ALUM. FRAMING SYSTEM WILL BE RESPONSIBLE FOR PROVIDING FULLY ENGINEERED DESIGN INCLUDING MEMBER SIZING, DESIGN FOR WIND/LATERAL LOADS, INTERNAL REINFORCING, ALL CLIPS, ATTACHMENTS, & ANCHORS, SHIMS, ETC. PROVIDE SHOP DRAWINGS OF ALL SYSTEMS FOR REVIEW.

TYPICAL DOOR CLEARANCE



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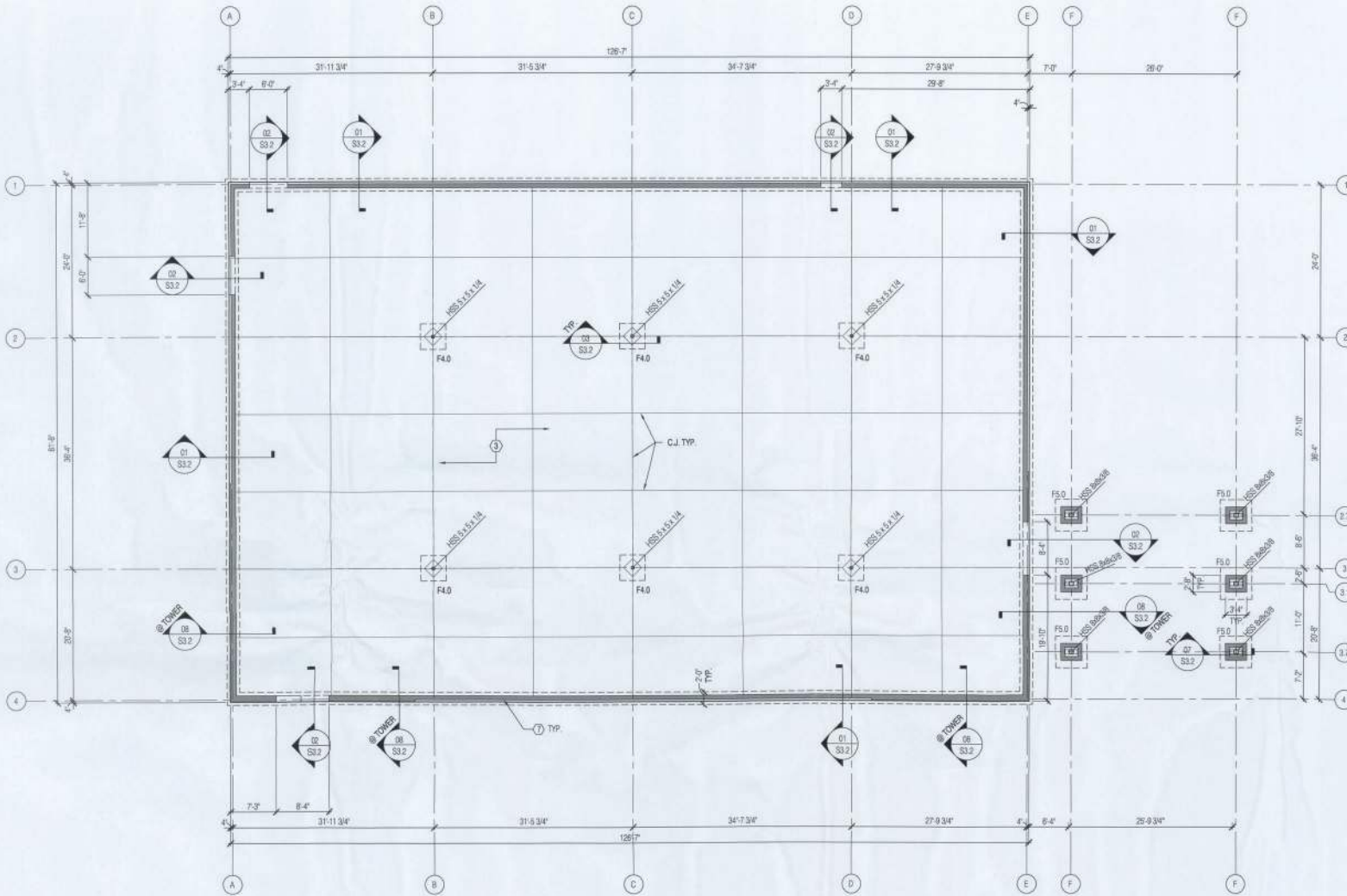
REVISIONS:

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SCHEDULES

A7.0


DATE: 09.11.14



01 FOUNDATION PLAN

1/8" = 1'

PLAN NOTES AND KEY

1. REFER TO SHEET S1.1 FOR STRUCTURAL NOTES & GENERAL PROJECT INFORMATION.
2. REFER TO ARCH'L & CIVL DRAWINGS FOR DATUM ELEVATION OF FINISH FLOOR.
3. 4" GROUND-SUPPORTED SLAB OVER MOISTURE RETARDER PER S1.1 OVER IMPROVED SURGRADE PER THE GEOTECHNICAL REPORT. REINFORCE W/ #4 @ 16" O.C. E.W. MIDSLAB. REFER TO DETAILS ON SHEET S3.1 FOR ADD'L REINFORCEMENT & FOR CONTROL JOINTING INFORMATION.
4. REFER TO S1.1 FOR CURING COMPOUND.
5. REFER TO 01BSS3.1 FOR ADD'L REINFORCEMENT @ RE-ENTRANT CORNERS.
6. NEW COLUMNS ARE DESIGNATED THUS: 
7. NEW CMU WALL. REFER TO SHEET S1.1 FOR MATERIAL SPECIFICATIONS. REFER TO DETAILS FOR REINFORCEMENT.



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LAKE CITY WEST

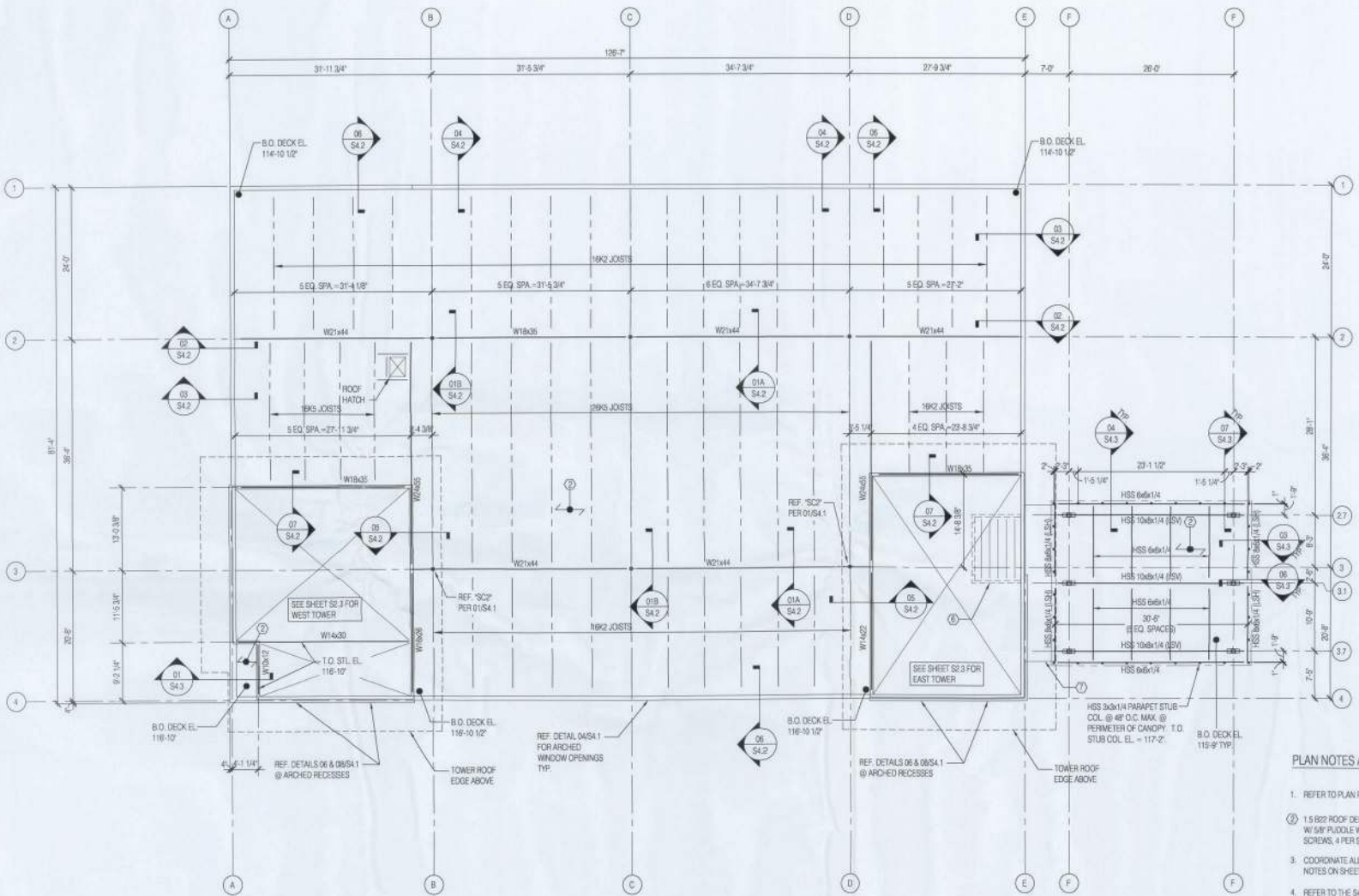


REVISIONS:

JOB NO: 14013

FOUNDATION PLAN

S2.1
DATE: 09.11.14



PLAN NOTES AND KEY

1. REFER TO PLAN FOR B.O. ROOF DECK ELEVATIONS.
2. 1.5 B22 ROOF DECK. ATTACH TO ALL SUPPORTS (EDGE & INTERIOR) W/ 5/8" PUDDLE WELDS @ 12" O.C., & ATTACH SIDE LAPS W/ #10 TEK SCREWS, 4 PER SPAN.
3. COORDINATE ALL WORK THIS SHEET WITH THE STRUCTURAL NOTES ON SHEET S1.1 AND WITH PROJECT SPECIFICATIONS.
4. REFER TO THE S4 SHEET SERIES FOR TYPICAL STEEL CONNECTION DETAILS, TYPICAL BAR JOIST CONNECTION DETAILS, AND TYPICAL MECHANICAL EQUIPMENT AND OPENING DETAILS. COORDINATE ROOF DRAIN LOCATIONS WITH THE ARCHITECTURAL ROOF PLAN. VERIFY LOCATIONS OF ROOF-TOP EQUIPMENT WITH THE MEP DRAWINGS.
5. BAR JOIST BRIDGING PER SUPPLIER NOT SHOWN FOR CLARITY.
6. VESTIBULE BELOW. PROVIDE MIN. 18 GA. STUDS @ 16" O.C. (REF. ARCH. FOR STUD DEPTH). FRAME VESTIBULE CEILING W/ 8005182-43 JOISTS @ 16" O.C. & NOMINAL 1/2" CGB DECKING.
7. PRE-ENGINEERED CANOPY PER CANOPY SUPPLIER.



01 ROOF FRAMING PLAN

1/8"=1'

LAKE CITY WEST




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ROOF FRAMING PLAN

S2.2
DATE: 09.11.14



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LAKE CITY WEST



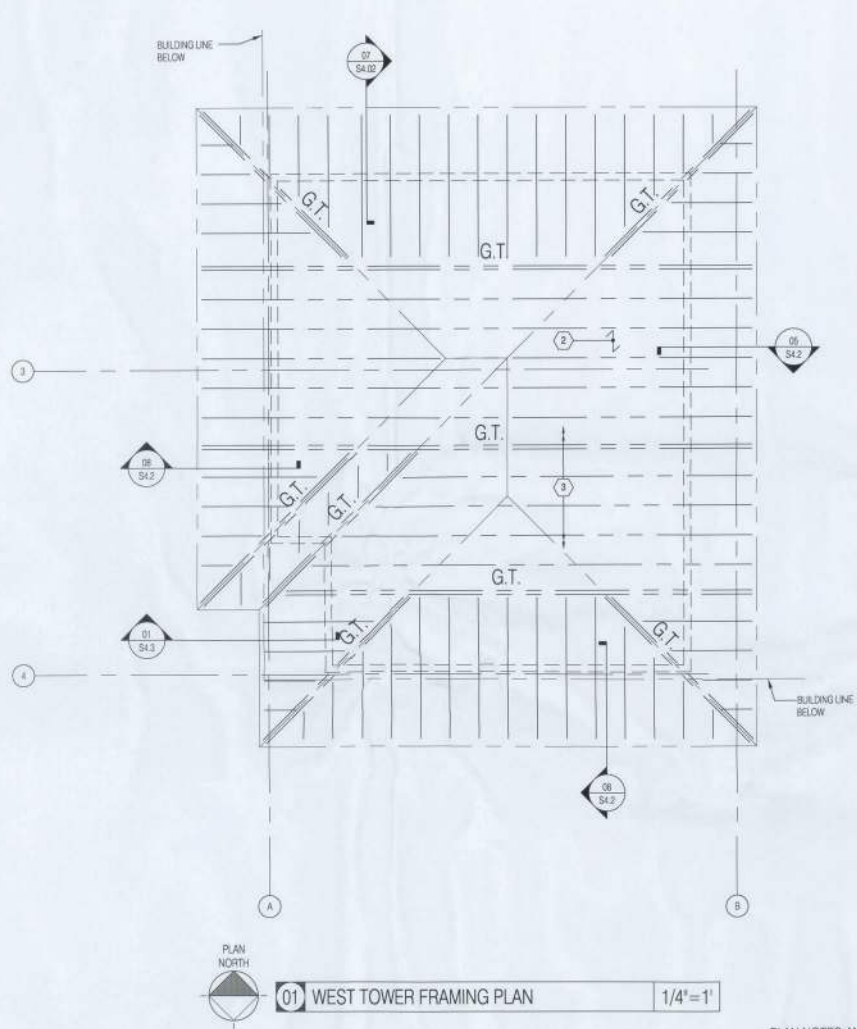
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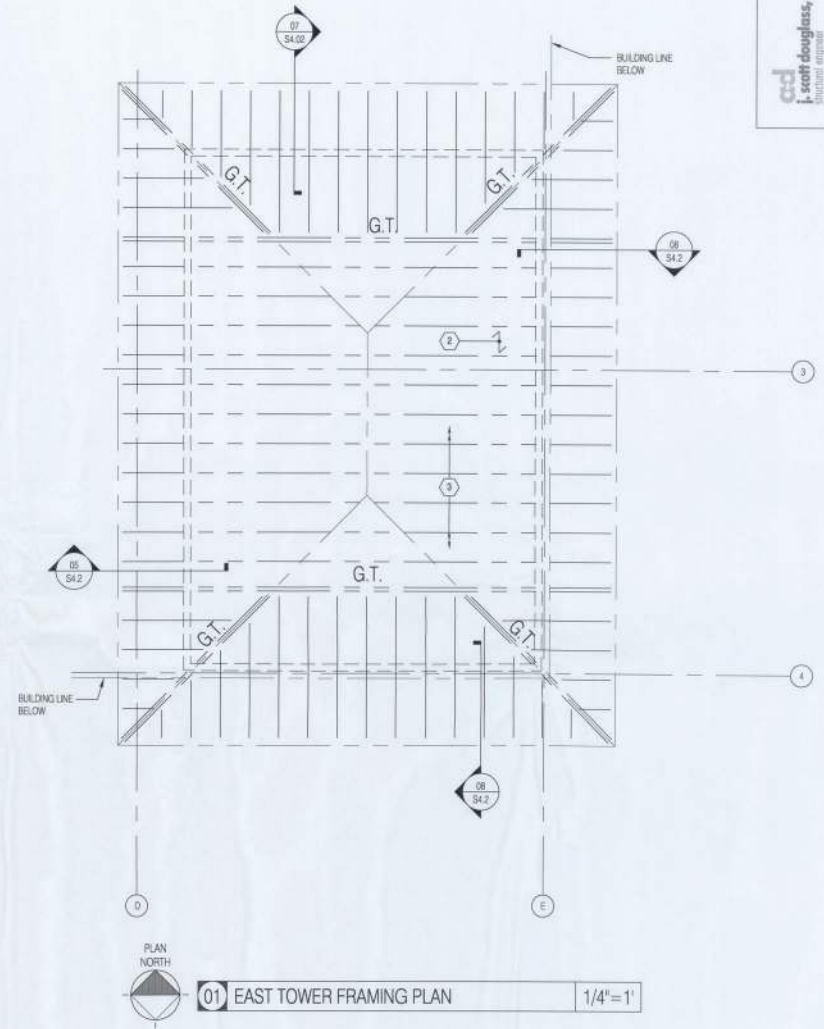
TOWER FRAMING PLAN

S2.3

 DATE: 09.11.14



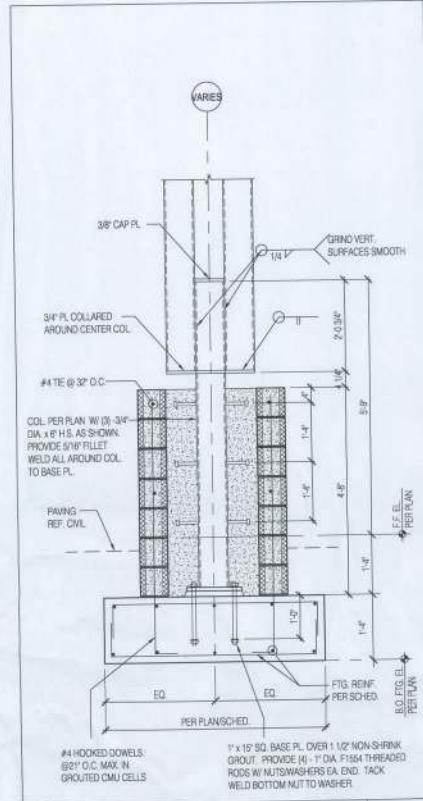
01 WEST TOWER FRAMING PLAN
1/4" = 1'



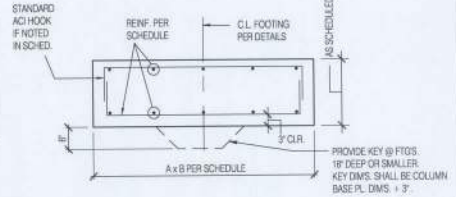
01 EAST TOWER FRAMING PLAN
1/4" = 1'

PLAN NOTES AND KEY

1. REFER TO PLAN FOR B.O. ROOF DECK ELEVATIONS
2. NOMINAL 3/4" DIA. WOOD PANEL DECKING, ATTACHED TO TRUSS FRAMING W/ 19d SCREWS @ 6" O.C. PROVIDE MID-SPAN DEFLECTION CLIPS TYP.
3. PRE-ENGINEERED LIGHT-GAUGE STEEL TRUSSES AT 24" O.C.
4. COORDINATE ALL WORK THIS SHEET WITH THE STRUCTURAL NOTES ON SHEET S1.1 AND WITH PROJECT SPECIFICATIONS.
5. "G.T." DESIGNATES GIRDER TRUSS PER TRUSS SUPPLIER.



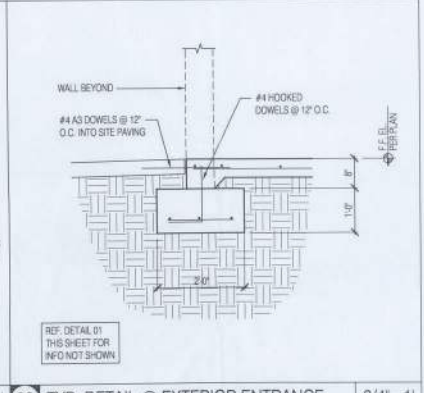
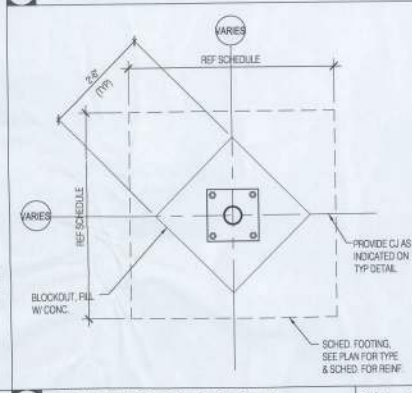
| MARK | A x B | DEPTH | REINFORCEMENT |
|------|----------|-------|---------------|
| F2.5 | 2'-6\"/> | | |



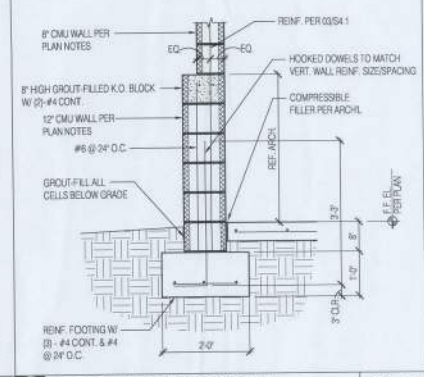
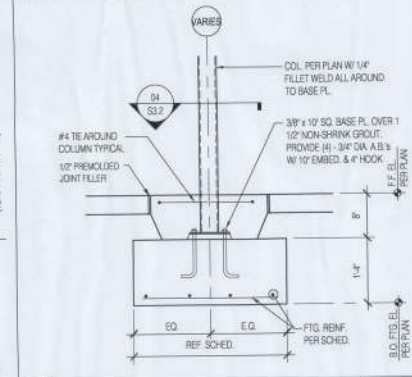
A. SPREAD FOOTING SCHEDULE

B. TYPICAL SPREAD FOOTING

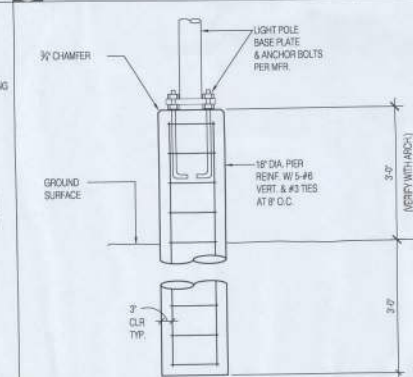
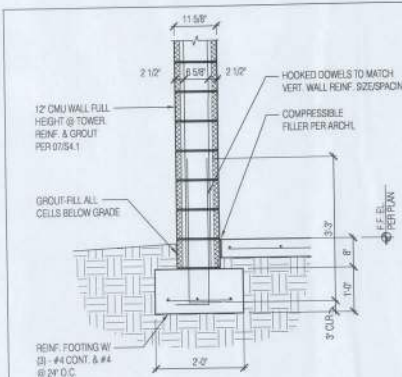
05 FOOTING SCHEDULE N.T.S.



07 TYP. EXTERIOR CANOPY FTG. SECTION 3/4\"/>



04 TYP. INTERIOR COL. FTG. PLAN 3/4\"/>



06 TYP. EXTERIOR 12\"/>

08 TYP. EXTERIOR 12\"/>

03 TYP. INTERIOR COL. FTG. SECTION N.T.S.

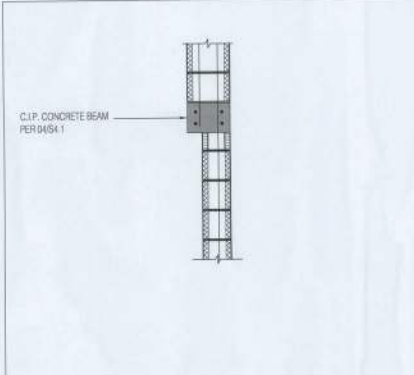
01 TYP. DETAIL @ EXTERIOR WALL 3/4\"/>

REVISIONS:

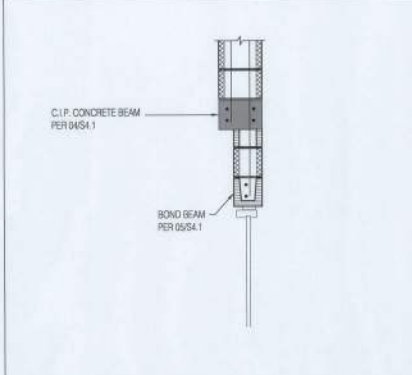
JOB NO: 14013

FOUNDATION DETAILS

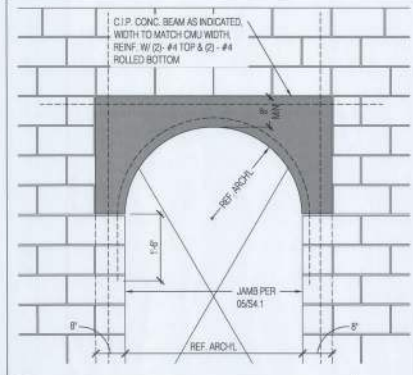
S3.2
DATE: 09.11.14



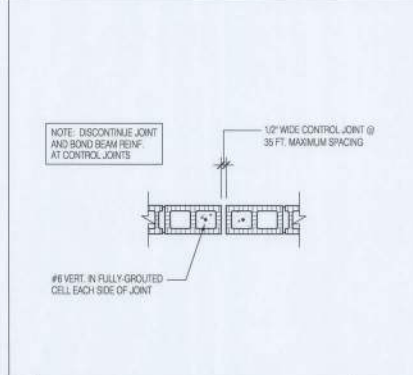
08 DETAIL @ ARCH 3/4" = 1'



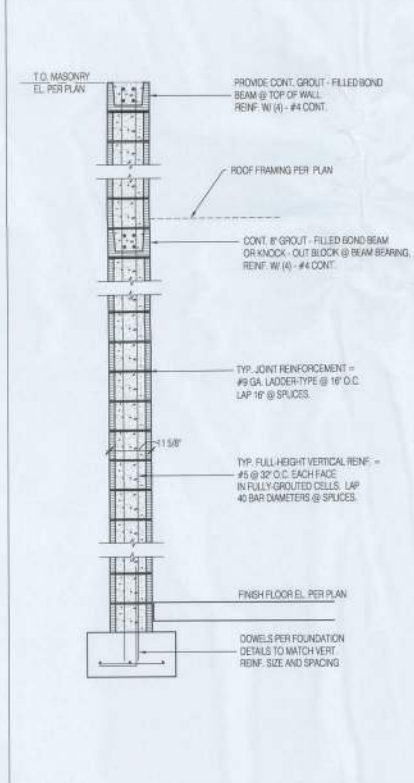
06 DETAIL @ ARCH 3/4" = 1'



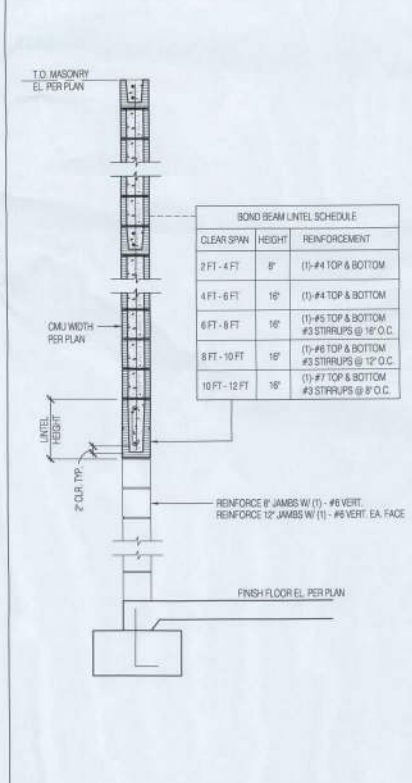
04 TYP. ARCHED WINDOW ELEVATION 3/4" = 1'



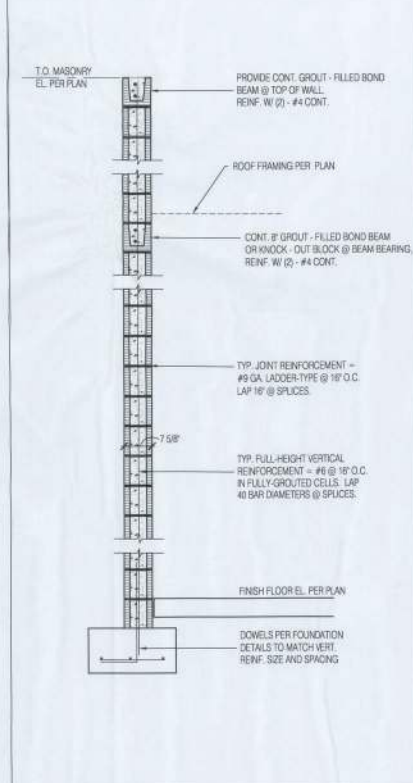
02 TYP. CONTROL JOINT N.T.S.



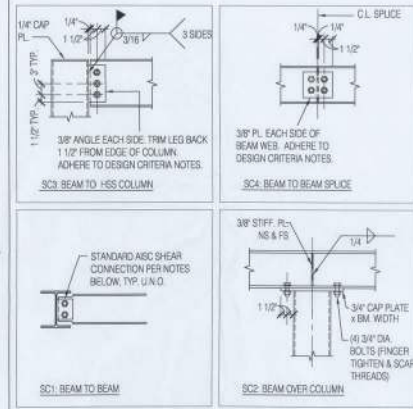
07 TYP. 12" CMU WALL REINFORCEMENT N.T.S.



05 TYP. CMU WALL OPENING N.T.S.



03 TYP. 8" CMU WALL REINFORCEMENT N.T.S.



SHEAR CONNECTION DESIGN CRITERIA

A) DESIGN FOR UNFACTORED REACTIONS NOTED ON PLANS.

B) IF REACTIONS ARE NOT NOTED ON PLANS: DESIGN NON-COMPOSITE BEAM CONNECTIONS FOR 1/2 THE TOTAL DESIGN UNIFORM LOAD FOR THE BEAM SPAN FROM THE ASC - UNIFORM LOAD TABLES. DESIGN COMPOSITE BEAM CONNECTIONS FOR 1.7 TIMES THE BEAM SPAN FROM THE ABOVE - NOTED TABLE.

C) DETAIL CONNECTIONS PER ASC - ASD 13TH EDITION SPECIFICATION USING MIN. 5/16" THICK DOUBLE CLIP ANGLES OR MIN. 3/8" SHEAR PLATE. USE 3/4" DIA. A 325-N BOLTS OR LARGER FOR ALL STRUCTURAL CONNECTIONS UNLESS SHEAR PLATE CONNECTIONS SHALL BE BOLTED TO BEAM AND WELDED TO SUPPORT. DOUBLE CLIP ANGLES CAN BE EITHER BOLTED OR WELDED PROVIDED THEY COMPLY WITH LOADING REQUIREMENTS AND ASC STANDARDS.

D) IN ADDITION TO SHEAR CONNECTION DESIGN CRITERIA PER NOTES A - C, PROVIDE A MINIMUM OF THE FOLLOWING NUMBER OF CONNECTION BOLTS AS FOLLOWS:

| | |
|-----------|---------|
| W8 - W12 | 2 BOLTS |
| W14 - W16 | 3 BOLTS |
| W18 - W21 | 4 BOLTS |
| W24 | 5 BOLTS |


01 TYPICAL STEEL SHEAR CONNECTIONS N.T.S.

REVISIONS:

JOB NO: 14013

ROOF FRAMING
DETAILS

S4.1
DATE: 09.11.14



 i-scott douglass, pe

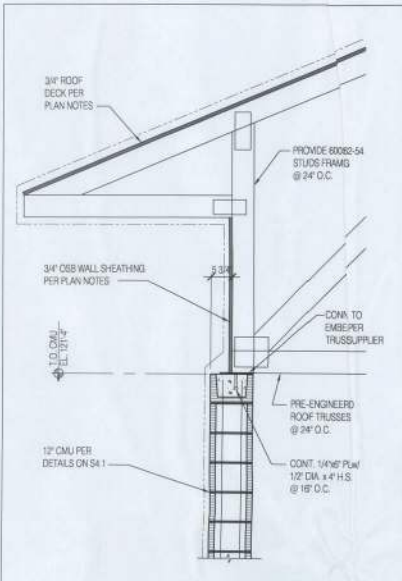
 structural engineer

callaway

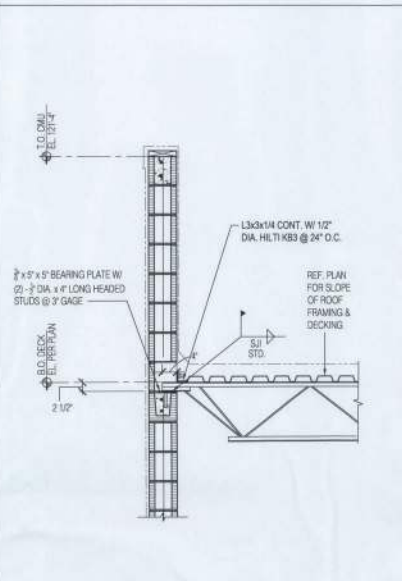
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 1207 HAMPSHIRE LN. ST#105, RICHARDSON, TX-75080

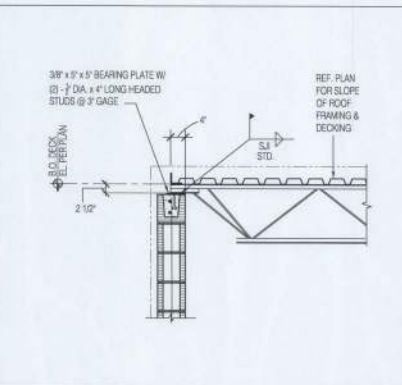
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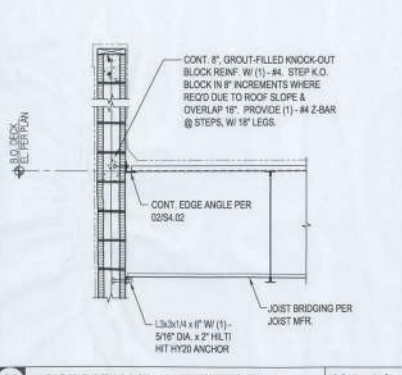
08 DETAIL @ TOWER 3/4" = 1 ft.



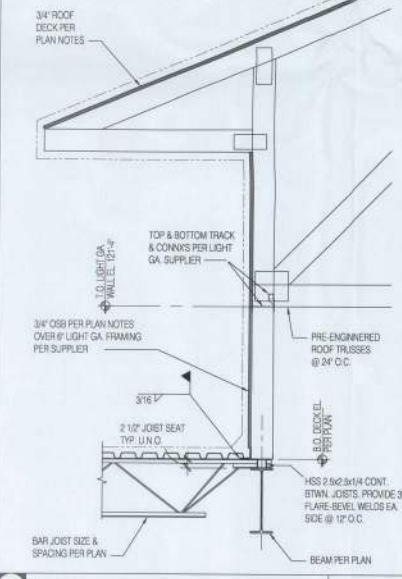
06 TYP. BAR JOIST @ EXTERIOR WALL 3/4" = 1 ft.



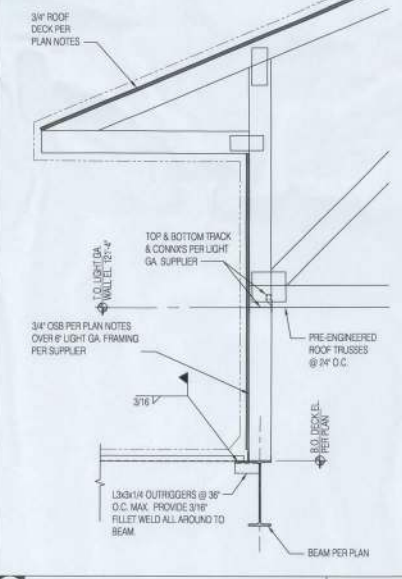
04 JOIST BEARING @ NO PARAPET 3/4" = 1 ft.



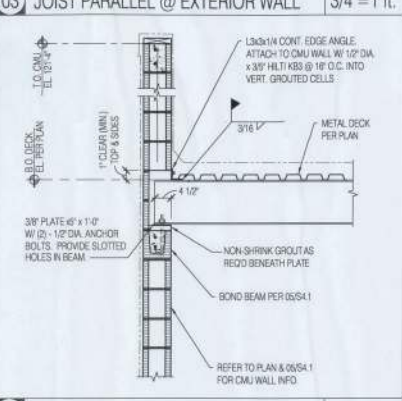
03 JOIST PARALLEL @ EXTERIOR WALL 3/4" = 1 ft.



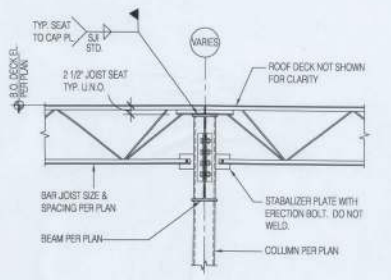
07 DETAIL AT TOWER 3/4" = 1 ft.



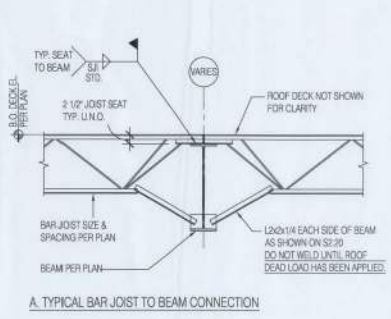
05 DETAIL @ TOWER 3/4" = 1 ft.



02 STEEL BEAM @ EXTERIOR WALL 3/4" = 1 ft.



B. TYPICAL BAR JOIST TO COLUMN CONNECTION



A. TYPICAL BAR JOIST TO BEAM CONNECTION

LAKE CITY WEST



REVISIONS:

JOB NO: 14013

ROOF FRAMING DETAILS

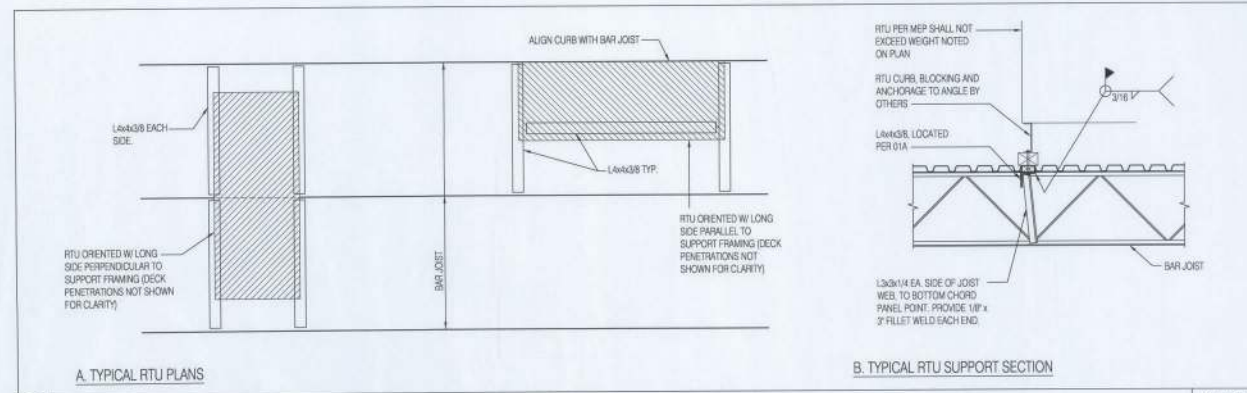
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 DATE: 09.11.14

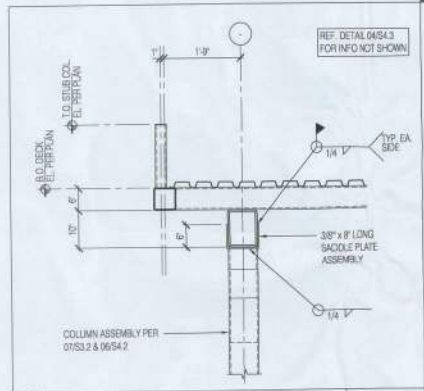
NTS

cd
i-scott douglass, pc
Structural Engineer

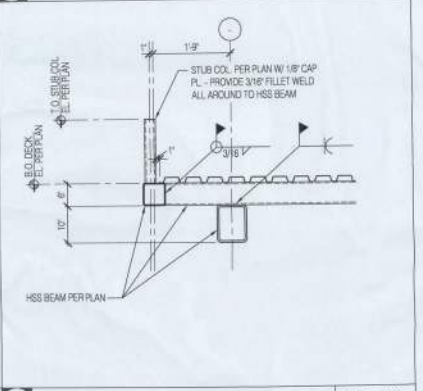
Callaway
architecture
1207 HAMPSHIRE LN, ST #105, RICHARDSON, TX - 75080
PHONE: 214.368.2525



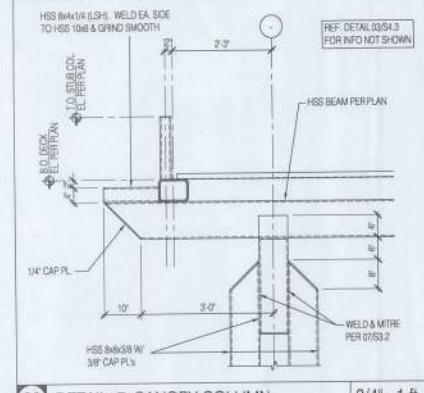
05 RTU SUPPORT FRAMING DETAILS N.T.S.



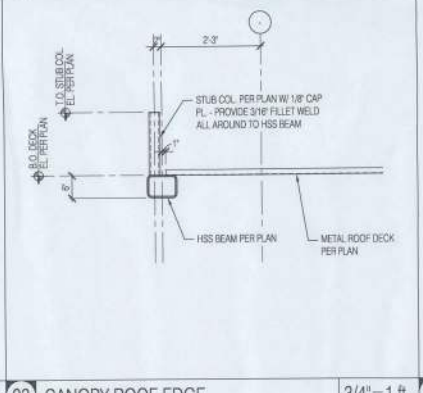
07 DETAIL @ CANOPY COLUMN 3/4"=1 ft.



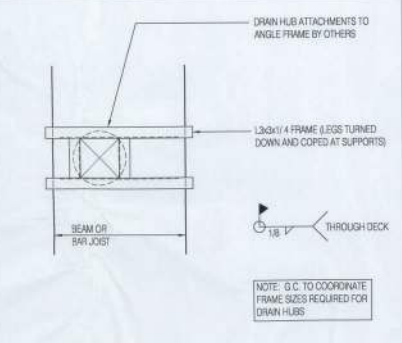
04 CANOPY ROOF EDGE 3/4"=1 ft.



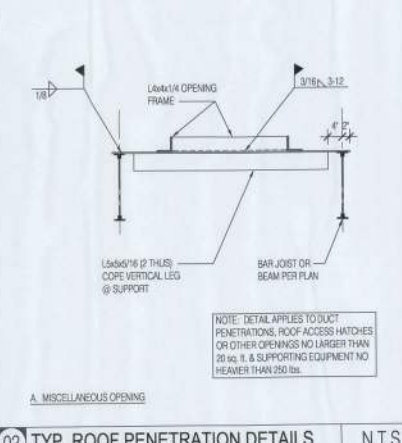
06 DETAIL @ CANOPY COLUMN 3/4"=1 ft.



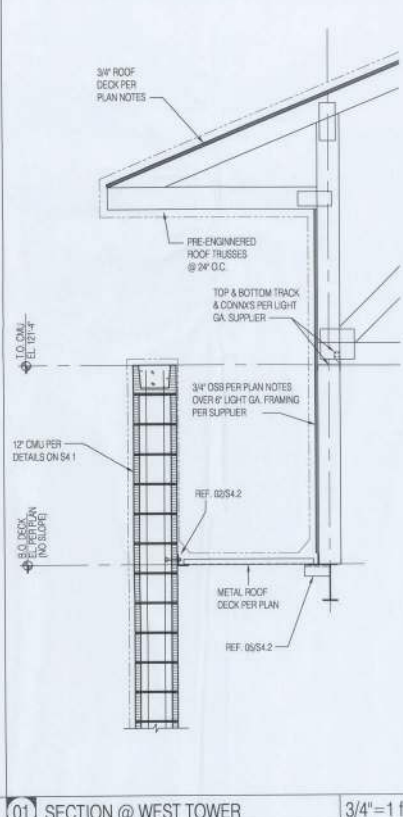
03 CANOPY ROOF EDGE 3/4"=1 ft.



08 ROOF DRAIN HUB SUPPORT



02 TYP. ROOF PENETRATION DETAILS N.T.S.



01 SECTION @ WEST TOWER 3/4"=1 ft.

LAKE CITY WEST



Lake City, FL

REVISIONS:

JOB NO: 14013

ROOF FRAMING
DETAILS

S4.3
DATE: 09.11.14

| ELECTRICAL LEGEND | | LEGEND IS GENERAL IN NATURE. NOT ALL OF THE SYMBOLS SHOWN ARE USED IN THIS PROJECT. | | ABBREVIATIONS & DESCRIPTIONS | | | |
|--|--|--|--|---|--|---|--|
| POWER SIMPLEX OUTLET, +18" AFF UNO. DUPLEX OUTLET, +18" AFF UNO. DUPLEX OUTLET, MOUNTED ABOVE COUNTER UNO. DUPLEX OUTLET, +18" AFF UNO WITH GROUND FAULT INTERRUPTION PROTECTION. DUPLEX OUTLET, MOUNTED ABOVE COUNTER UNO WITH GROUND FAULT INTERRUPTION PROTECTION. SWITCHED DUPLEX OUTLET, +18" AFF UNO. DUPLEX ISOLATED GROUND OUTLET, +18" AFF UNO. DUPLEX ISOLATED GROUND OUTLET, MOUNTED ABOVE COUNTER UNO. DUPLEX 20A OUTLET, +18" AFF UNO. DUPLEX 20A OUTLET, MOUNTED ABOVE COUNTER UNO. SINGLE 20A OUTLET, +18" AFF UNO. FOURPLEX OUTLET, +18" AFF UNO. FOURPLEX OUTLET, MOUNTED ABOVE COUNTER UNO. FOURPLEX ISOLATED GROUND OUTLET, +18" AFF UNO. FOURPLEX ISOLATED GROUND OUTLET, MOUNTED ABOVE COUNTER UNO. SPECIAL PURPOSE OUTLET, VERIFY SIZE AND TYPE WITH EQUIPMENT SUPPLIER. DUPLEX OUTLET, FLUSH, FLOOR MOUNTED. DUPLEX SWITCHED OUTLET, FLUSH, FLOOR MOUNTED. DUPLEX ISOLATED GROUND OUTLET, FLUSH, FLOOR MOUNTED. FOURPLEX OUTLET, FLUSH, FLOOR MOUNTED. SPECIAL PURPOSE OUTLET, FLUSH, FLOOR MOUNTED. WET/DRY OUTLET. MOTOR CONNECTION, RE: MECHANICAL EQUIPMENT SCHEDULE. POWERPOLE - BUS CHANNEL. PAD MOUNT TRANSFORMER. | | LIGHTING (SEE LUMINAIRE SCHEDULE FOR EXACT REQUIREMENTS) SINGLE FACE EXIT SIGN, CEILING MOUNTED. DOUBLE FACE EXIT SIGN, CEILING MOUNTED. SINGLE FACE EXIT SIGN, WALL MOUNTED. DOUBLE FACE EXIT SIGN, WALL MOUNTED. SINGLE FACE COMBO EXIT SIGN/EMERGENCY LUMINAIRE, WALL MOUNTED. ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN. LIGHT FIXTURE. LIGHT FIXTURE. LIGHT FIXTURE. SUSPENDED LIGHT FIXTURE. WALL MOUNTED FIXTURE. WALL SCONCE FIXTURE. WALL RACK FIXTURE. UNDERCABINET MOUNTED FIXTURE. TROUGHLIGHT. PENDANT LIGHT FIXTURE. ROUND DECORATIVE LIGHT FIXTURE, SURFACE MOUNT. RECESSED LIGHT FIXTURE. RECESSED WALL WASH LIGHT FIXTURE. PORCELAIN LAMP HOLDER. WALL MOUNTED PORCELAIN LAMP HOLDER. CEILING FAN. CEILING FAN WITH LIGHT KIT. POLE LIGHT 2 HEAD ROUND WITH POLE. POLE LIGHT 2 HEAD ROUND WITH POLE. POLE LIGHT 1 HEAD SQUARE WITH POLE. POLE LIGHT 2 HEAD SQUARE WITH POLE. BOLLARD LIGHT. DECORATIVE POST-TOP LIGHT. SPOT/FLOOD LIGHT. EMERGENCY EGRESS LIGHT, WALL MOUNTED. EMERGENCY EGRESS LIGHT, CEILING MOUNTED. | | CIRCUITING SYMBOLS CONDUIT STUBBED, CAPPED, AND MARKED WITH PULL CORD. CONDUIT UP. CONDUIT DOWN. HORIZONTAL PANEL AND CIRCUIT AS INDICATED. CIRCUIT CONCEALED IN CEILING OR WALL, 3/4" - 2 1/2" (1/25 UNO). CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND, 3/4" - 2 1/2" (1/25 UNO). RACEWAY SIZE: 1" - 1 1/2" (1/25 UNO). CONDUCTOR SIZE. CONDUCTOR QUANTITY. | | ABBREVIATIONS & DESCRIPTIONS A AMPERE AC ABOVE COUNTER, REFER TO ARCHITECTURAL ELEVATIONS FOR REQUIRED HEIGHT. AFD ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AFS AMPERE FRAME AJU AUTHORITY JURISDICTION AT AMP TRIP AWD AMERICAN WIRE GAUGE BW BLANKET WARMER C CONDUIT CB CIRCUIT BREAKER CD CRASH CART COT CIRCUIT CL CRITICAL LOAD CM COILING MOUNTED CO CONDUIT ONLY, PROVIDE PULL-LINE D MECHANICAL, SUCC-MOUNTED DEVICE DC DIRECT CURRENT DET DETAIL E EMERGENCY/CRITICAL CARE E1 EXISTING E2 EXISTING FIN EL EMERGENCY LIGHT EMC ELECTRIC WATER COOLER EMH ELECTRIC WATER HEATER F FUSE FACP FIRE ALARM CONTROL PANEL FARV FULL VOLTAGE NON-REVERSING G/ND GROUND GI GROUND FAULT INTERRUPTION GFP GROUND FAULT PROTECTION H HORIZONTAL HI HANDLE HED HED UNLESS DISCONNECT HEA HAND OFF AUTO HH HOUSE PHONE HMC HEATING, VENTILATING, & AIR CONDITIONING I ILLUMINATION IC INTERRUPTING CAPACITY IG ISOLATED GROUND J/JB JUNCTION BOX KW KILOWATT KWH KILOWATT HOUR M MAGNETIC CONDUCTOR COIL MCC MOTOR CONTROL CENTER MLO MAX LOAD ONLY MS MOTOR STARTER MFI MAINFOLD MW MICROWAVE N NEUTRAL NC NORMALLY CLOSED NCR NON CRITICAL LOAD NEC NATIONAL ELECTRICAL CODE NIC NOT IN CONTRACT NO NORMALLY OPEN NES NOT TO SCALE O OVERHEAD OS OCCUPANCY SENSOR OFC OWNER FURNISHED CONTRACTOR INSTALLED P PHOTOCELL PC POLYURETHANE CHLORIDE RCPT RECEPTACLE RFL RECESSED RPL REPLACED RH REFRIGERATOR RSPOT SINGLE POLE SINGLE THROW TO TIME CLOCK TRR TIME DELAY RELAY TJB TERMINAL JUNCTION BOX TSP TWISTED SHIELDED PAIR TTB TELEPHONE TERMINAL BOARD TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR TYP TYPICAL UH UNIT HEADER UNO UNLESS NOTED OTHERWISE VA VOLT AMPERE VFC PROTECTIVE FUSE GUARD WP WEATHER PROOF/NEHA 3H WTM TRANSFORMER | |
| COMMUNICATIONS TELEPHONE OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MARKING, LOCATED AT 18" AFF UNO. TELEPHONE OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MARKING, LOCATED ABOVE COUNTER UNO. TELEPHONE/DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MARKING, LOCATED AT 18" AFF UNO. DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MARKING, LOCATED ABOVE COUNTER UNO. TELEPHONE OUTLET, FLUSH, FLOOR MOUNTED. TELEPHONE/DATA OUTLET, FLUSH, FLOOR MOUNTED. DATA OUTLET, FLUSH, FLOOR MOUNTED. SPEAKER, CEILING MOUNTED WITH BACKBOX. SPEAKER, WALL MOUNTED WITH BACKBOX +18" UNO. TELEVISION OUTLET, SINGLE-GANG BOX WITH MARKING, +18" AFF UNO. TELEVISION OUTLET, SINGLE-GANG BOX WITH MARKING, CEILING MOUNTED. TELEVISION OUTLET, FLUSH, FLOOR MOUNTED. | | SWITCHES SWITCH, TYPE AS INDICATED, +1/4" AFF, UNO. DOUBLE POLE. 3-WAY. 4-WAY. DIMMER. KNOB. LOW VOLTAGE. NONINTERFERING CONTACT. MANUAL MOTOR STARTER. OCCUPANCY SENSOR. PILOT LIGHT. TIMER. THERMAL OVERLOAD. VOLUME CONTROL. SUPERScript INDICATES LIGHTS TO BE SWITCHED TOGETHER. MULTI-LEVEL SWITCHING TO MEET LIGHT REDUCTION LEVELS PER ENERGY CODE AS SHOWN. PROVIDE ADDITIONAL OR STEP-DIMMING BALLASTS WHERE REQUIRED. OCCUPANCY SENSOR, CEILING MOUNTED. PHOTOCELL, WALL MOUNTED. PHOTOCELL, CEILING MOUNTED. TIMELOCK, WALL MOUNTED. SINGLE BUTTON, WALL MOUNTED PUSHBUTTON, MOUNT AT SWITCH HEIGHT UNO. THREE BUTTON, WALL MOUNTED PUSHBUTTON, MOUNT AT SWITCH HEIGHT UNO. MOTOR STARTER/CONTRACTOR. COMBINATION STARTER AND DISCONNECT. NON-FUSED DISCONNECT SWITCH, SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO. FUSED DISCONNECT SWITCH, SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO. | | ONELINE BRANCH PANEL. CIRCUIT BREAKER, SIZE AND TYPE AS SPECIFIED. CIRCUIT BREAKER, FRAME SIZE (AF) AND TRIP PLUG RATING (AT), 3 POLE UNO. FUSE, SIZE AND TYPE AS SPECIFIED, PROVIDE FUSE FOR EACH POLE, 3 POLE UNO. INTERRUPTER SWITCH, SIZE AS INDICATED, 3 POLE UNO. FUSED SWITCH, SWITCH SIZE (AS) & FUSE SIZE (AF) AS INDICATED, 3 POLE UNO. DRAW OUT CIRCUIT BREAKER FRAME (AF) SIZE AND TRIP PLUG RATING (AT), 3 POLE UNO. NONFUSED BREAKER FRAME (AF) SIZE AND TRIP PLUG RATING (AT), NEMA 1 UNO, 3 POLE UNO. METER. AMMETER. VOLTMETER. KEY LOCK. GROUND FAULT PROTECTION. TRANSIENT VOLTAGE SURGE SUPPRESSION. SHUNT TRIP COIL. KILOWATT HOUR METER. KILOVOLT DEMAND METER. TEST BLOCK. OVERHEAD SERVICE DROP. GENERATOR SET, MAIN BREAKER SIZE INDICATED. TRANSFER SWITCH. OUTLET. METER AND BASE. NEUTRAL. | | | |
| MISCELLANEOUS JUNCTION BOX. JUNCTION BOX, WALL MOUNTED. THERMOSTAT, +1/4" AFF UNO, UNIT CONTROLLED INDICATED. HANDSEAT, +1/4" AFF UNO, UNIT CONTROLLED INDICATED. SURFACE MOUNTED PANELBOARD/ENCLOSURE, SEE SCHEDULE FOR TYPE. FLUSH MOUNTED PANELBOARD/ENCLOSURE, SEE SCHEDULE FOR TYPE. MECHANICAL EQUIPMENT SYMBOL, (RE: MECHANICAL DRAWINGS FOR EXACT LOCATION OF UNITS). INDICATES FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE. | | SHEET INDEX E0.0 ELECTRICAL COVER SHEET E0.1 ELECTRICAL SPECIFICATIONS E1.0 ELECTRICAL SITE PLAN E1.1 PHOTOMETRIC SITE PLAN E2.0 ELECTRICAL PLAN E3.0 PANEL SCHEDULES GENERAL ELECTRICAL NOTES (SEE ALL ELECTRICAL SHEETS) 1. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INTERNATIONAL WIRE CODE, AND ALL OTHER STATE AND LOCAL CODES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING IF PORTIONS OF THE DESIGN SET OR FIELD CONDITIONS DO NOT MEET REQUIRED CODES. 2. PROVIDE FRESHSTOPPING FOR ALL FLOOR AND FRICTIONAL PENETRATIONS FROM ELECTRICAL DEVICE, RACKING, AND CABLE PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR FRICTIONAL LOCATIONS. 3. ELECTRICAL DEVICES AND UNDERWIRE ARE SHOWN BOLD FOR NEW, BOLD/DASHED FOR DEMO AND SCREENED FOR EXISTING. 4. FIRE ALARM SYSTEM IS DESIGN BUILT BY ELECTRICAL CONTRACTOR AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND ALL OTHER STATE AND LOCAL CODES. PROVIDE AND INSTALL CONDUIT AND CONDUCTORS FOR ALL FIRE ALARM DEVICES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO IMAC. SHUTDOWN FIRE ALARM CONTROL PANEL, INITIATING AND ANNUNCIATING CIRCUITS. FIELD INSPECTION IS REQUIRED TO VERIFY THIS INFORMATION PRIOR TO BID. 5. PROVIDE AND INSTALL 3/4" TO ACCESSIBLE LOCATION ABOVE SUSPENDED CEILING, UNLESS NOTED OTHERWISE FOR DATA, TELEPHONE AND TELEVISION SERVICES. DATA, TELEPHONE AND TELEVISION CABLEING ARE NOT PROVIDED UNDER THIS CONTRACT. 6. EMERGENCY LIGHTING SYMBOLS ARE SHOWN ON THE LIGHTING PLANS. EMERGENCY SOURCE SHALL BE BATTERY BACKED BALLAST WITH MINIMUM 1 HOUR LUMEN OUTPUT FOR A 90 MINUTE PERIOD, UNLESS NOTED OTHERWISE. PROVIDE SHUNTED CONDUCTORS FOR CHARGING CIRCUIT AS REQUIRED. 7. DESIGN OF ELECTRICAL REQUIREMENTS IS BASED ON MECHANICAL EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR IF EQUIPMENT PURCHASED IS DIFFERENT FROM THAT SPECIFIED. THIS MEETS DESIGN INTENT, INCLUDING BUT NOT LIMITED TO OVER-CURRENT PROTECTION, LOCAL DISCONNECTING MEANS, AND WIRE SIZING. | | | | | |
| MOUNTING HEIGHTS DETAIL MOUNTING HEIGHTS DETAIL. PANEL IS 18" HIGH. OUTLET CENTERLINE IS 24" FROM FINISH FLOOR. SWITCH CENTERLINE IS 48" FROM FINISH FLOOR. DIMENSIONS: 18", 24", 48", 90". | | REVISIONS: JOB NO: 14013 ELECTRICAL COVER SHEET E0.0 DATE: 09.11.14 | | | | | |



REVISIONS:

JOB NO: 14013

ELECTRICAL COVER SHEET

E0.0

DATE: 09.11.14

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE OF WORK

FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND ALL OTHER WORK AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT NECESSARILY IMPLIED FOR A COMPLETE INSTALLATION, INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE AND READY FOR OPERATION. THIS PROJECT INCLUDES ELECTRICAL SERVICE, GENERAL POWER, LIGHTING, AND COMMUNICATIONS SYSTEM INFRASTRUCTURE. FIRE ALARM SYSTEM IS TO BE DESIGN/INSTALLED BY ELECTRICAL CONTRACTOR. COMMUNICATIONS SYSTEM CABLEING AND HEAD-END EQUIPMENT IS BY OWNER.

1.2 CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL COMPLY WITH LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING AND FIRE CODES, NFPA, AND OTHER APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS. CODE COMPLIANCE IS MANDATORY NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS.

1.3 LICENSE, FEES AND PERMITS

AWARDEE FOR REQUIRED INSPECTIONS AND PAY ALL LICENSE, PERMIT AND INSPECTION FEES.

1.4 CONDITIONS AT SITE

VISIT TO SITE IS REQUIRED OF ALL BIDDERS PRIOR TO SUBMISSION OF BID. ALL WILL BE HELD TO HAVE FAMILIARIZED THEMSELVES WITH ALL DISCRETE CONDITIONS AND NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF THESE CONDITIONS UNLESS SPECIFICALLY MENTIONED OR NOT. LINES OF OTHER SERVICES THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL PROMPTLY BE REPAIRED AT NO EXPENSE TO THE OWNER TO COMPLETE SATISFACTION OF THE OWNER.

1.5 SAFETY

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

1.6 GUARANTEE

GUARANTEE THE INSTALLATION FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF CERTIFICATE OF FINAL PAYMENT AND PROMPTLY REMEDY ANY DEFECTS DEVELOPING DURING THIS PERIOD, WITHOUT CHARGE.

1.7 SUBSTITUTIONS

WHenever possible, more than one manufacturer has been listed for various items of equipment. Any one of which will be acceptable. Make the bid on use of materials specified. If, after award of the contract, a substitute is proposed, the request for permission to substitute shall be accompanied with a statement of the amount of money to be returned to the contractor. If the substitution is permitted, the engineer is the sole judge of acceptability of proposed substitutions. If a substitute item is permitted, and any redesign effort is thereby necessitated, the required redesign shall be at the contractor's expense.

1.8 SHOP DRAWINGS AND MATERIALS LISTS

SUBMIT TO THE ENGINEER SEVEN (7) COPIES OF COMPLETE SHOP DRAWINGS AND MATERIALS LISTS FOR REVIEW WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT. ALL PROPOSED WORKINGS FROM SPECIFICATIONS MUST BE CLEARLY LISTED UNDER A PROMINENT HEADING ENTITLED "COMMENTS".

1.9 WORKMANSHIP

ONLY QUALITY WORKMANSHIP WILL BE ACCEPTED. HAZARDOUS OR POOR INSTALLATION PRACTICE WILL BE CAUSE FOR REJECTION OF WORK.

1.10 COORDINATION

COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUTE-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE PERFORMING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK.

1.11 CUTTING AND PATCHING

ALL CUTTING AND PATCHING REQUIRED FOR WORK OF THIS DIVISION IS INCLUDED HEREIN. COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES IS MANDATORY.

1.12 SITE CLEANUP

- AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED CONDUIT, FITTINGS, EQUIPMENT AND SUPPORTS. TOUCH UP PAINT ON ANY EQUIPMENT SCRAPED, SANDERED OR DAMAGED DURING CONSTRUCTION.
- LEAVE ALL AREAS INVOLVED ELECTRICAL WORK IN A CONDITION SATISFACTORY TO THE OWNER. REMOVE ALL CHUTES, OVERHEADS, PACKING MATERIAL, WASTE MATERIAL, AND OTHER DEBRIS LEFT OVER FROM CONSTRUCTION.

PART 2 - PRODUCTS

2.1 MATERIAL APPROVAL

ALL MATERIALS MUST BE NEW AND BEAR UL-LABEL. MATERIALS THAT ARE NOT COVERED BY UL TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OF A GOVERNMENTAL AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION.

2.2 WIRES AND CABLES

- CONDUCTORS FOR BODY SYSTEMS AND BELOW SHALL BE STRANDED COPPER, #12 AWG MINIMUM.
- INSULATION SHALL BE THIN FOR WET LOCATIONS AND THIN FOR DRY LOCATIONS.

2.3 OUTLET BOXES, JUNCTION AND PULL BOXES

- OUTLET BOXES: NOT-DIPPED, GALVANIZED OR SHERARDIZED, SIZE AS REQUIRED WITH 4" SQUARE MINIMUM FOR FLUSH MOUNTED BOXES AND LIGHTING FIXTURES.
- JUNCTION AND PULL BOXES: NOT-DIPPED, GALVANIZED OR SHERARDIZED, SIZES ACCORDING TO CODE. LARGER JUNCTION AND PULL BOXES SHALL BE FABRICATED FROM SHEET STEEL, SIZED ACCORDING TO CODE, WITH SCREW-ON COVERS, FINISHED GRAY BAKED ENAMEL.

2.4 WIRING DEVICES

- ALL WIRING DEVICES OF ANY ONE GENERAL TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL MATCH THROUGHOUT.
- WIRING DEVICES SHALL BE AS MANUFACTURED BY HUBBELL, GE, LEITON, P & S, OR BRYANT. NO SUBSTITUTIONS.
- COVER PLATES SHALL BE AS MANUFACTURED BY ARROW MVT, SIERRA, LEYTON OR MULLBERRY. COORDINATE FINISH WITH ARCHITECT.
- WHERE INDICATED, PROVIDE GENERAL-DUTY, DUPLEX RECEPTACLES, GROUND-FAULT CIRCUIT INTERRUPTERS: GROUNDING TYPE (A-BRATED CLASS A GROUP 1), 20 AMPERES RATING, 120 VOLTS, 60HZ WITH SOLE-SENE GROUND-FAULT SENSING AND SENSING; WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL; COORDINATE FINISH WITH ARCHITECT.
- SWITCHES SHALL BE FLUSH WALL TYPE, COORDINATE FINISH WITH ARCHITECT.
- COMMENCEMENT RECEPTACLES SHALL BE, FLUSH WALL TYPE, COORDINATE FINISH WITH ARCHITECT.

2.5 WIRE CONNECTORS

- FOR WIRE SIZES #6 AWG AND SMALLER, INSULATED PRESSURE TYPE (WITH LUG SPRINGS) RATED 100% BODY, FOR BUILDING WIRING AND 1000V IN FITTINGS, SPOUTS, OR IDEAL.
- FOR WIRE SIZES #6 AWG AND LARGER, TAB OR EQUIVALENT COMPRESSION TYPE WITH 3/4" Ø 3/4" OR PLYWOOD "SLIPNOT GREY" TAPE INSULATION.

2.6 PANELBOARD

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIMONS, OR CUTLER HAMMOCK. PROVIDE PANELBOARDS AS INDICATED ON SCHEDULES, WITH THE FOLLOWING FEATURES: 100%-DRYAN COPPER BUS (98 PERCENT CONDUCTIVITY), MECHANICAL-TYPE MAIN AND NEUTRAL LUGS, NEUTRAL BUS RATED 100 PERCENT OF PHASE BUS, GROUND BUS BONDED TO ENCLOSURE, BUILT-ON MOLDED-CASE THERMAL-MAGNETIC BREAKERS.

2.7 RACEWAYS

- OUTDOORS:
EXPOSED: RIBBON STEEL OR INTERMEDIATE METAL CONDUIT
CONCEALED: RIBBON STEEL OR INTERMEDIATE METAL CONDUIT
UNDERGROUND: RIBBON METAL CONDUIT
TO VIBRATING EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT
- INDOORS:
EXPOSED: ELECTRICAL METALLIC TUBING, RIBBON STEEL CONDUIT, PVC-COATED RIBBON STEEL CONDUIT
CONCEALED: ELECTRICAL METALLIC TUBING, METAL CLAD
DAMP OR WET LOCATIONS: RIBBON STEEL CONDUIT
TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT

PART 3 - EXECUTION

3.1 - GENERAL

- ELECTRIC SYSTEM LAYOUTS INDICATED ON THE DRAWINGS ARE GENERALLY DIAGNOSTIC. BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
- CONSULT ALL OTHER DRAWINGS, VERIFY SCALES AND REPORT ANY DIMENSIONAL DISCREPANCIES OR OTHER CONFLICTS TO ARCHITECT BEFORE SUBMITTING BID.
- ALL NAME PLATES ARE INDICATED AS STARTING FROM THE DEVICE NEAREST THE PANEL AND CONTINUING IN THE GENERAL DIRECTION OF THAT PANEL. OBTAIN SUCH CIRCUITS TO THE PANEL AS THROUGH THE ROUTES WERE COMPLETELY INDICATED.
- RIBBON CUTTING AND BORING HOLES THROUGH STRUCTURE OR STRUCTURAL MEMBERS WHEREVER POSSIBLE. OBTAIN PRIOR APPROVAL OF ARCHITECT AND CONFORM TO ALL STRUCTURAL REQUIREMENTS WHEN CUTTING OR BORING THE STRUCTURE IS NECESSARY AND PERMITTED.

3.2 - ELECTRICAL GROUNDING

GROUND ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC. IN ADDITION PROVIDE A SEPARATE GROUND WIRE FOR ALL FEEDERS AND BRANCH CIRCUITS.

3.3 - ELECTRICAL EQUIPMENT INSTALLATION

- HEAD ROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.
- MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
- EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
- RIGHT OF WAY: COORDINATE INSTALLATION OF ELECTRICAL DEVICES WITH OTHER TRADES.

3.4 - RACEWAY AND CABLE INSTALLATION

- ABOVE GRADE: RIBBON STEEL OR IMC IN WET LOCATIONS, WHERE SUBJECT TO MECHANICAL DAMAGE AND IN CONCRETE OR BLOCK WALLS, BUT IN OTHER LOCATIONS WHERE PERMITTED BY CODE, METAL CLAD ONLY WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- CONCEAL RACEWAYS AND CABLES WITHIN FINISHED WALLS, CEILING, AND FLOORS, UNLESS OTHERWISE INDICATED.
- INSTALL RACEWAYS AND CABLES AT LEAST SIX (6) INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY PLANS ABOVE WATER AND STEAM PIPING.
- USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.
- WAKE CONDUIT BENDS AND OFFSETS TO INSIDE DIAMETER IS NOT REDUCED. KEEP LESS OF BENDS IN THE SAME PLANE AND STRAIGHT LESS OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- USE RACEWAY FITTINGS AND CABLE FITTINGS COMPATIBLE WITH RACEWAYS AND CABLES AND SCHEDULE FOR THIS

APPLICATION AND LOCATION

- INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH OF CONCRETE COVER.
 - SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT.
 - SPACE RACEWAYS LATERALLY TO PREVENT VOIDS IN CONCRETE.
- INSTALL CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE CONDUIT IS AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.
- TRANSITION FROM NONMETALLIC TUBING TO RIBBON STEEL CONDUIT, OR IMC BEFORE RISING ABOVE FLOOR.
- WAKE EXPOSED BENDS OR SHARPED RUNS FROM SAME CENTERLINE IN ORDER THAT BENDS ARE PARALLEL. USE FACTORY ELBOW ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR EXPOSED PARALLEL RACEWAYS.
- INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12-INCHES OF SLACK AT EACH END OF PULL WIRE.
- INSTALL TELEPHONE AND SIGNAL SYSTEM RACEWAYS, 2-INCH TRADE SIZE AND SMALLER, IN MAXIMUM LENGTH OF 150 FEET (45 M) AND WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS, IN ADDITION TO REQUIREMENTS ABOVE.
- CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, HOSE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LVMC IN WET OR DAMP LOCATIONS. INSTALL A SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- SET FLOOR BOXES LEVEL AND TRIM AFTER INSTALLATION TO FIT FLUSH TO FINISHED FLOOR SURFACE.
- CONDUCTORS: TYPE THIN/THIN INSULATED CONDUCTORS IN RACEWAY.
- INSTALL SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- INSTALL WIRING AT OUTLETS WITH AT LEAST 12 INCHES OF SLACK CONDUCTOR AT EACH OUTLET.
- CONNECT OUTLET AND COMPONENT CONNECTIONS TO WIRING SYSTEMS AND TO GROUND. TIGHTEN ELECTRICAL CONNECTIONS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.5 IDENTIFICATION

- PROVIDE ENGRAVED 3 LAYER LAMINATE PLASTIC NAMEPLATES FOR PANELBOARDS, DISCONNECT SWITCHES AND ALL SIMILAR DEVICES.
- COLOR-CODE 200V/100-VOLT SYSTEM SECONDARY SERVICE, FEEDER, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
 - PHASE A: BLACK
 - PHASE B: RED
 - PHASE C: BLUE
 - NEUTRAL: WHITE
 - GROUND: GREEN

3.6 STARTUP SERVICES

CONTRACTOR SHALL ALLOT A MINIMUM OF 2 HOURS FOR STARTUP SERVICES. START AND OPERATE ALL SYSTEMS AS REQUIRED BY THE OWNER. INSTRUCT OWNER'S REPRESENTATIVE ON THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT.

3.7 OPERATING AND MAINTENANCE INSTRUCTIONS (O+M MANUAL)

PREPARE THREE (3) COPIES FOR ALL EQUIPMENT.

3.8 RECORD AS-BUILTS

PROVIDE (1) CLEAR, LEGIBLE COPY OF DRAWINGS TO ENGINEER INDICATING ALL DEVIATIONS FROM INITIAL DESIGN (AS-BUILT CONDITIONS).

END OF SECTION



REVISIONS:

JOB NO 14013

ELECTRICAL
SPECIFICATIONS

E0.1

DATE: 09.11.14

U.S. HIGHWAY 90

SW PROPERTY PLACE

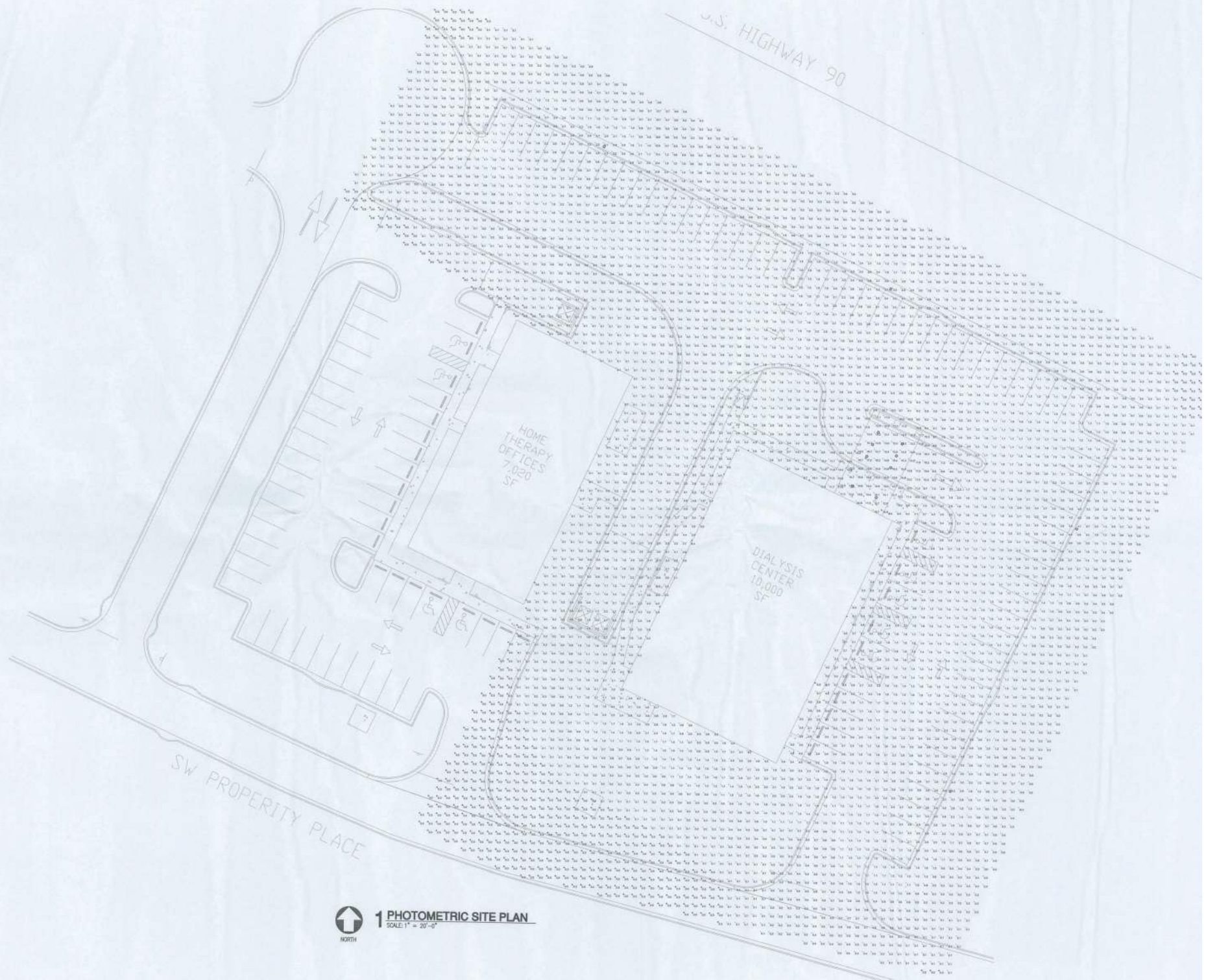


1 PHOTOMETRIC SITE PLAN

SCALE: 1" = 20'-0"

HOME
THERAPY
OFFICES
7,820
SF

DIALYSIS
CENTER
10,000
SF



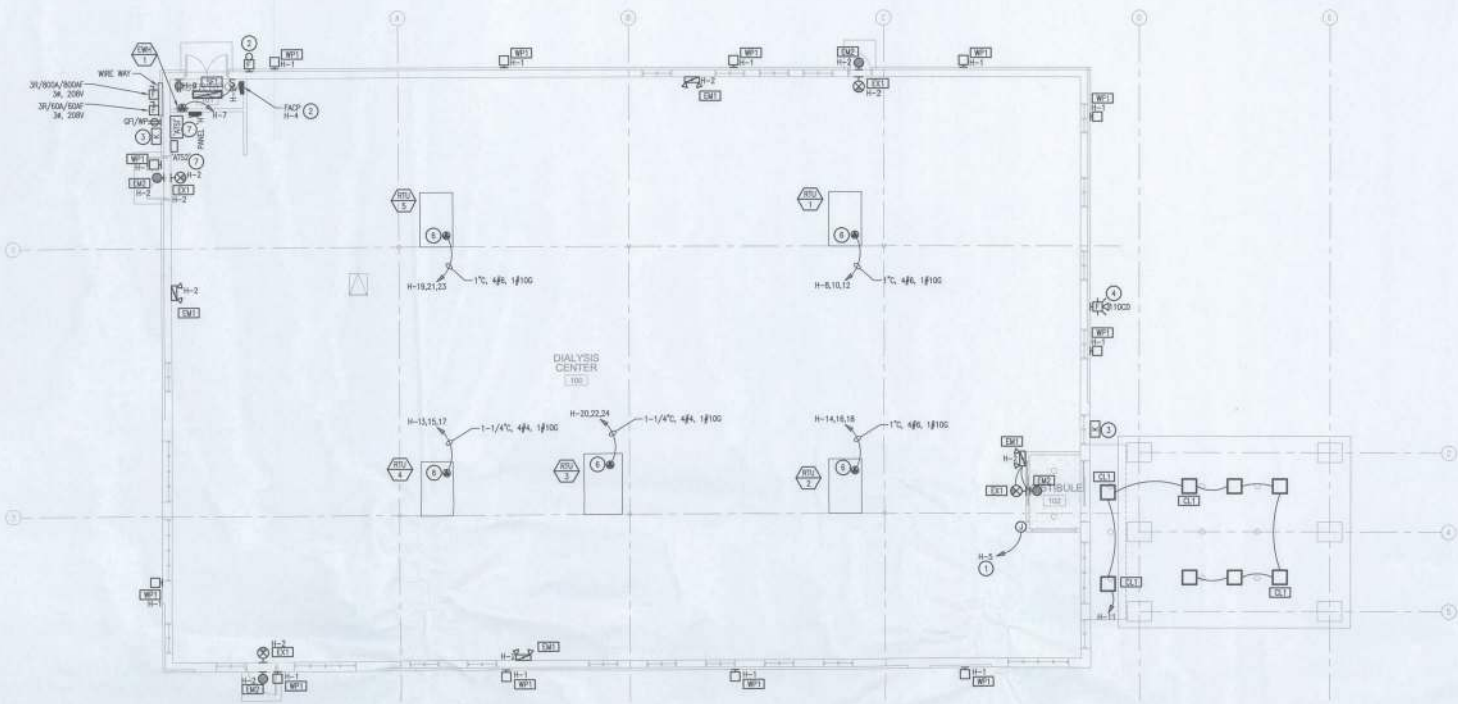


GENERAL POWER NOTES:

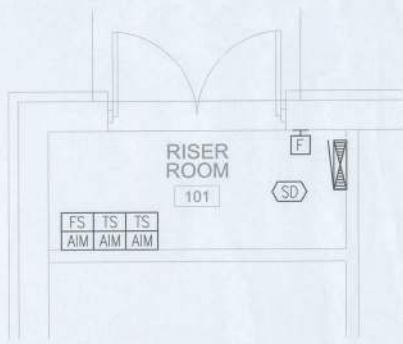
1. REFER TO GENERAL NOTES ON SHEET E3.0.
2. SEE SHEET E3.0 FOR LUMINAIRE SCHEDULE.
3. LIGHTING CONTROLS SHALL BE PROVIDED IN TENANT IMPROVEMENT.

POWER KEY NOTES:

1. PROVIDE POWER FOR AUTO DOOR, POWER PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE 120V POWER AS NECESSARY FOR FIRE ALARM SYSTEM.
3. MONITOR KNOX BOX TO REPORT A SUPERVISORY SIGNAL WHEN OPENED.
4. EXTERIOR WALL MOUNT HORN/STROBE TO BE MOUNTED ABOVE THE FIRE DEPARTMENT CONNECTION. COORDINATE EXACT LOCATION WITH THE FIRE SPRINKLER CONTRACTOR.
5. SEE ONE-LINE DIAGRAM ON SHEET E3.0 FOR CONDUIT AND WIRE SIZES.
6. DISCONNECT AND MAINTENANCE RECEPTACLE PROVIDED BY MECHANICAL.
7. ATS IS FURNISHED BY THE OWNER.



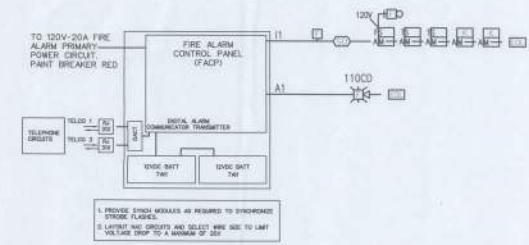
1 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



2 FIRE RISER ROOM DETAIL
SCALE: 1/4" = 1'-0"

| SYSTEM INPUTS | SYSTEM OUTPUTS | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|---|---|---|---|---|---|---|---|---|--------------|---|---|---|---|---------------|---|---|---|---|
| | CONTROL UNIT ANNUNCIATION | | | | | | | | | | NOTIFICATION | | | | | SUPPLEMENTARY | | | | |
| 1 MANUAL FIRE ALARM BONES | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
| 2 SMOKE DETECTOR | • | • | | | | | | | | | | | | | | | | | | |
| 3 SPRINKLER WATER FLOW SWITCHES | • | • | | | | | | | | | | | | | | | | | | |
| 4 SPRINKLER TAMPERS | • | • | | | | | | | | | | | | | | | | | | |
| 5 FIRE ALARM AC POWER FAILURES | • | • | | | | | | | | | | | | | | | | | | |
| 6 FIRE ALARM SYSTEM LOW BATTERY | • | • | | | | | | | | | | | | | | | | | | |
| 7 OPEN CIRCUIT | • | • | | | | | | | | | | | | | | | | | | |
| 8 OPENING FAULT | • | • | | | | | | | | | | | | | | | | | | |
| 9 MODIFICATION APPLIANCE CIRCUIT SHORT | • | • | | | | | | | | | | | | | | | | | | |
| 10 KNOX BOX ENTRY ALARM | • | • | | | | | | | | | | | | | | | | | | |

3 FIRE ALARM INPUT/OUTPUT MATRIX
SCALE: NTS



4 FIRE ALARM RISER (TYPICAL)
SCALE: NTS

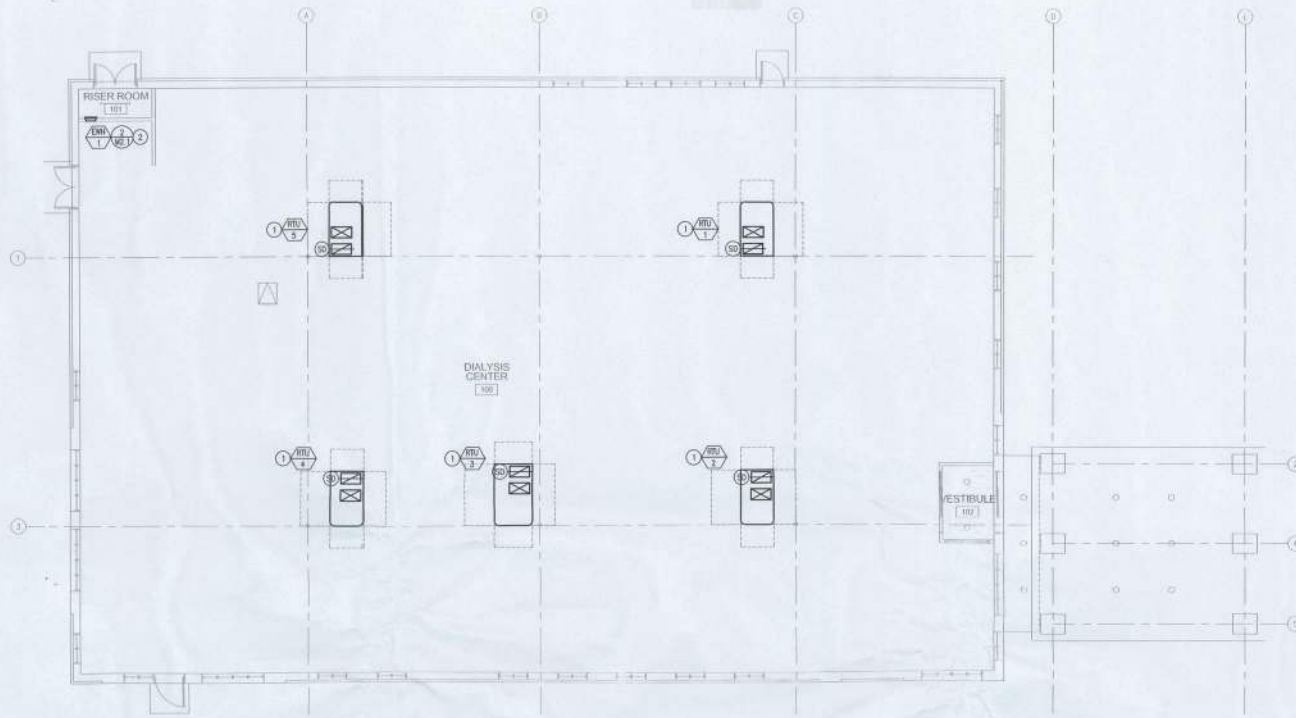
REVISIONS:

JOB NO: 14013

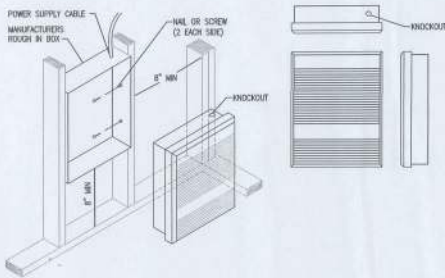
ELECTRICAL PLAN

E2.0

DATE: 09.11.14



1 HVAC FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRIC WALL HEATER DETAIL
SCALE: NTS

| COOLING & HEATING LOAD CALCULATIONS | | | | |
|-------------------------------------|-----------------|-----------------------------|----------------------------|-----------------------|
| SPACE | AREA (SQ. FEET) | SENS. COOLING LOAD (BTU/Hr) | TOT. COOLING LOAD (BTU/Hr) | HEATING LOAD (BTU/Hr) |
| RTU-1, RTU-2 | 3,061 | 106,130 | 140,743 | 58,290 |
| RTU-3, RTU-4 | 4,624 | 158,387 | 207,704 | 71,846 |
| RTU-5 | 1,401 | 54,581 | 73,999 | 34,304 |
| EW-1 | 57 | - | - | 1,981 |

| ELECTRIC WALL HEATER SCHEDULE | | | | | | | | | | |
|-------------------------------|------------|-----|----------|------|------|-------------|--------------|----------------------|---|--|
| EQUIPMENT NO. | SERVICE | CFM | ELECTRIC | | | | WEIGHT (LBS) | MANUFACTURER & MODEL | OPTIONS-ACCESSORIES | |
| | | | WATTS | HPM | MCA | VOLT-FR-CY. | | | | |
| EW-1 | FIRE RISER | 500 | 750 | 1005 | 12.5 | 120-1-60 | 8 | MINWEL E300220B | PROVIDE WITH MANUFACTURERS RECESSED WALL MOUNT KIT AND SINGLE POLE INTEGRAL T-STAT. | |

ALTERNATE MANUFACTURERS: GAWK, CHROMALOX, WARELY, KING, INCECO

| ROOFTOP PACKAGED HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|------|------------------|-------------------|-------------------|----------|--------------|-----------------------|--------------|---------|---------------|--------|------------|------|--------------|----------------------|---------------------|--------------|-----------------------------------|----|
| EQUIPMENT NO. | SERVICE | TONS | SUPPLY AIR (CFM) | OUTSIDE AIR (CFM) | E.S.P. (IN. W.G.) | COOLING | | | | HEATING | | | ELECTRICAL | | WEIGHT (LBS) | MANUFACTURER & MODEL | OPTIONS-ACCESSORIES | | | |
| | | | | | | EER/SEER | PRIMEFACTANT | ENTERING AIR (BTU/Hr) | SENSIBLE MBH | ELEC KW | HEAT PUMP MBH | STAGES | V.-PH.-CY. | MCA | | | | MOCP | FLA | HP |
| | | | | | | | | | | | | | | | | | | | | |
| RTU-1 | SEE PLANS | 8 | 2400 | — | 0.5 | 11.4/— | R-410A | 80/67 | 54.5 | — | 44.5 | 1 | 208-3-60 | 36.3 | 90 | — | 980 | TRANE WCC072 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | |
| RTU-2 | SEE PLANS | 8 | 2400 | — | 0.5 | 11.4/— | R-410A | 80/67 | 54.5 | — | 44.5 | 1 | 208-3-60 | 36.3 | 90 | — | 980 | TRANE WCC072 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | |
| RTU-3 | SEE PLANS | 10 | 4000 | — | 0.5 | 11.2/— | R-410A | 80/67 | 90.4 | — | 68.9 | 1 | 208-3-60 | 51.8 | 60 | — | 1400 | TRANE WSC120 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | |
| RTU-4 | SEE PLANS | 7.5 | 3000 | — | 0.5 | 11.1/— | R-410A | 80/67 | 66.8 | — | 45.5 | 1 | 208-3-60 | 38.4 | 60 | — | 1040 | TRANE WCC090 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | |
| RTU-5 | SEE PLANS | 8 | 2400 | — | 0.5 | 11.4/— | R-410A | 80/67 | 54.5 | — | 44.5 | 1 | 208-3-60 | 36.3 | 90 | — | 980 | TRANE WCC072 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | |

ALTERNATE MANUFACTURERS: YORK, CARRIER

NOTES:

1. UNIT CAPACITIES RATED AT SEA LEVEL AND 94 DEGREES CONDENSER ENTERING AIR.
2. PROVIDE WITH FACTORY SMOKE DETECTOR, FIELD INSTALLED.
3. PROVIDE WITH DISCONNECT.
4. PROVIDE WITH ECONOMIZER.
5. PROVIDE WITH PREHANGING 14" ROOF CURB.
6. PROVIDE WITH SESMAC CLIP.
7. PROVIDE WITH PROGRAMMABLE T-STAT WITH HUMIDITY CONTROL AND 5" DEADEND AND SEUPPORT OVERLAP RESTRICTION, T-STAT.
8. PROVIDE WITH SPRING SOLUTIONS.
9. PROVIDE WITH LOW AMBIENT CONTROLS.
10. PROVIDE WITH PUNBY CHARGE.
11. PROVIDE WITH HUMIDITY CONTROL TO MAINTAIN 40-60% RH.

GENERAL NOTES:

1. CONTRACTOR TO COORDINATE ALL EQUIPMENT LOCATIONS AND ROOF PENETRATIONS WITH THE SCOPE OF THIS PROJECT. PLUMBING VENTS, REGULATOR VENTS, FLUES, AND EXHAUST AIR OUTLETS TO BE KEPT A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKE LOCATIONS.
2. ALL SUPPLY, RETURN AND OUTSIDE AIR DUCT TO BE INSULATED PER 2009 IECC.
3. LOCATIONS AND WEIGHTS OF ROOFTOP EQUIPMENT ARE TO BE VERIFIED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
4. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY EXHAUST FAN TO ANY OUTSIDE AIR INTAKE.

KEYED NOTES:

1. RTU ON ROOF. COORDINATE WITH TENANT IMPROVEMENT PLANS FOR EXACT LOCATION. ROUTE SUPPLY AND RETURN AIR DUCTS FULL SIZE FROM UNIT DOWN THROUGH ROOF. TERMINATE RETURN AT 12" BELOW ROOF AND SUPPLY A MINIMUM OF 24" BELOW RETURN TO PROVIDE HEAT TO SPACE. PROVIDE THERMOSTAT WITH 25 FT. OF WIRING FOR FUTURE TENANT IMPROVEMENT. MOUNT THERMOSTAT TO BOTTOM OF ROOF STRUCTURE.
2. MOUNT ELECTRIC WALL HEATER PER DETAIL 2 THIS SHEET. COORDINATE WALL HEATER LOCATION WITH LOCATION OF THE RISER.



09/11/14

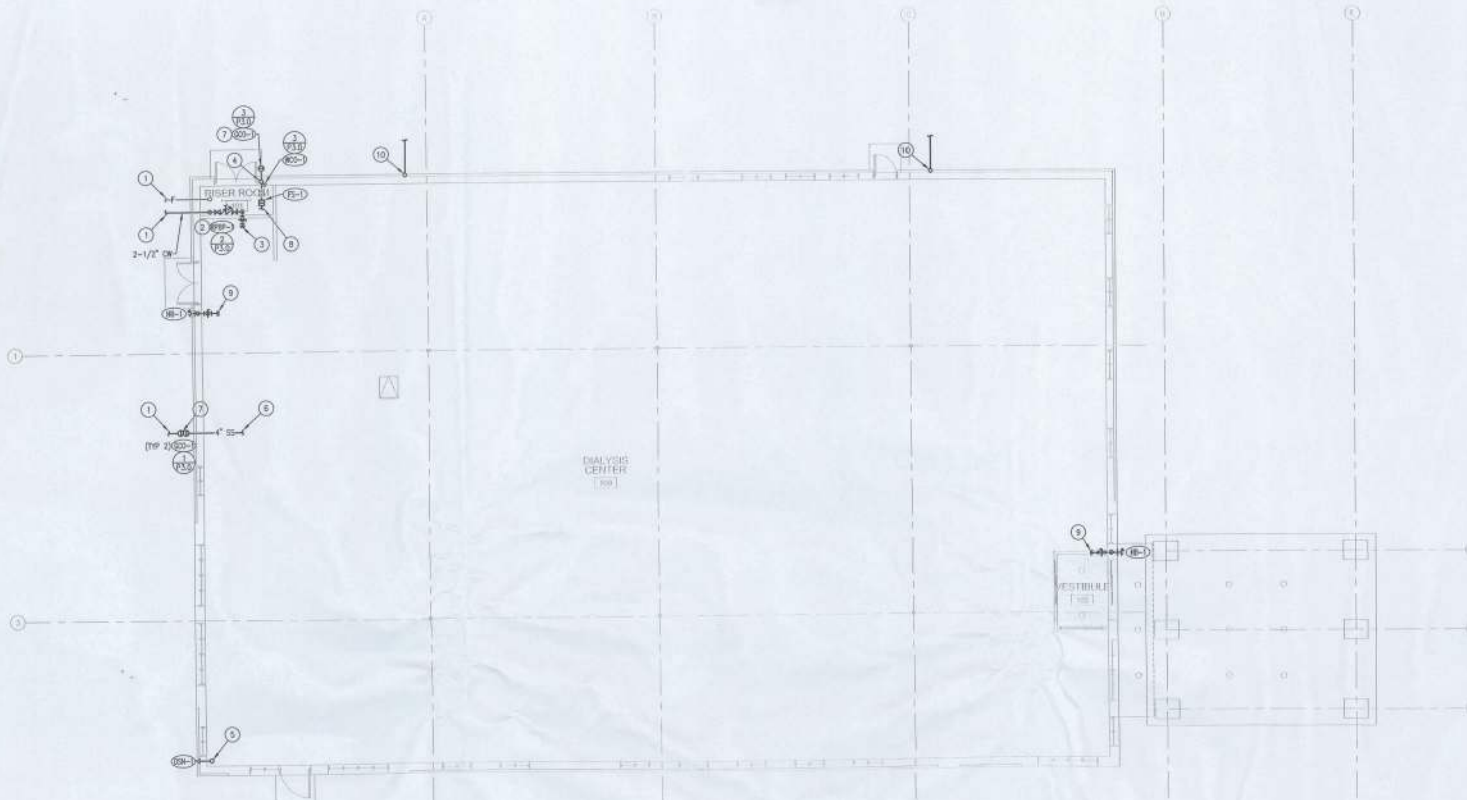
REVISIONS:

JOB NO: 14013

HVAC
PLAN

M2.1

DATE: 09.11.14



1 PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- 01 CERTAIN EQUIPMENT REQUIREMENTS NOTED ON THESE DRAWINGS WERE DERIVED FROM OWNER-FURNISHED COORDINATION DRAWINGS. CONTRACTOR TO VERIFY ACTUAL OWNER-FURNISHED EQUIPMENT CONNECTION REQUIREMENTS AND SCOPE OF WORK. CONTRACTOR TO PROVIDE INSTALLATION OF ALL OWNER SUPPLIED PLUMBING FIXTURES.
- 02 CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SANITARY, DOMESTIC, AND GAS LINES. VERIFY AVAILABLE INVERT DEPTHS PRIOR TO BEGINNING WORK.
- 03 CONTRACTOR TO VERIFY INVERTS OF MANHOLES AND DOCUMENT WHETHER BACKCHECK VALVE IS REQUIRED.
- 04 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY VIT TO ANY OUTSIDE AIR INTAKE.

KEYED NOTES:

- 1. EXTEND 5'-0" FROM BUILDING AND CONNECT TO SITE UTILITIES.
- 2. BACK FLOW DEVICE PER LOCAL JURISDICTION. PROVIDE AND INSTALL IF NOT PROVIDED BY SITE CONNECTION. LOCATE BUILDING SHUT-OFF VALVE AT THE LOCATION. CONTRACTOR TO VERIFY INVERT PRESSURE IS GREATER THAN 60 PSI PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF PRESSURE IS LESS THAN 60 PSI OR MORE THAN 80 PSI.
- 3. 2-1/2" CW VALVE AND CAP FOR FUTURE CONNECTION.
- 4. VENT UP THROUGH ROOF. PROVIDE WITH ROOF PENETRATION KIT AND SEAL WEATHER TIGHT. SEE SPEC. 4. SHEET PLUS.
- 5. IT IS TO BE NOTED ON INSIDE SURFACE OF CHU WALL TO 20#-1 AT 12" ABOVE FINISHED GRADE. SEE PLUMBING ROOF PLAN FOR COORDINATION.
- 6. COORDINATE INVERT AND VENT LINES WITH TI ARCHITECTS PLAN.
- 7. COORDINATE INVERT ELEVATION WITH TI ARCHITECTS PLAN.
- 8. COORDINATE FUTURE SS CONNECTION TO TI UNDER-FLOOR PLUMBING.
- 9. 3/4" CW FROM HOSE BIBB. TERMINATE WITH CAP AND VALVE HERE IN SPACE FOR FUTURE TI CONNECTION.
- 10. TRANSFER FROM ARCHITECTURAL DOWNPOUT TO 3" ROOF DRAIN AT 12" ABOVE GRADE. COORDINATE ROOF DRAIN LOCATION WITH ARCHITECTURAL DOWNPOUT LOCATION. ROUTE 5'-0" FROM BUILDING AND CONNECT TO SITE UTILITIES. COORDINATE WITH SITE/CHL FOR EXACT CONNECTION LOCATIONS AND AVAILABLE INVERTS.



09/11/14

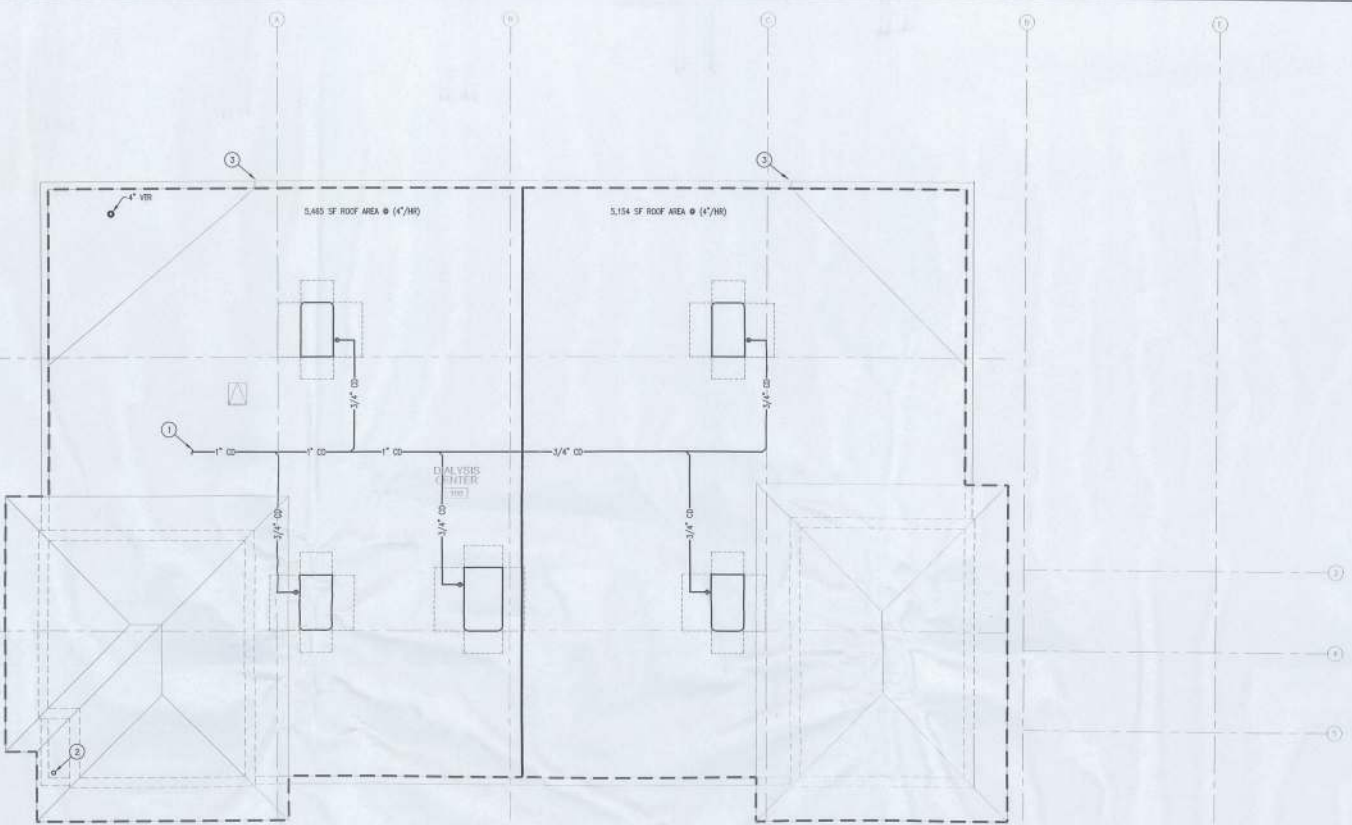
REVISIONS:

JOB NO: 14013

PLUMBING
FLOOR PLAN

P2.1

DATE: 09.11.14



1 PLUMBING ROOF PLAN
SCALE 1/4" = 1'-0"

GENERAL NOTES:

- G1 CERTAIN EQUIPMENT REQUIREMENTS NOTED ON THESE DRAWINGS WERE DERIVED FROM OWNER-FURNISHED COORDINATION DRAWINGS. CONTRACTOR TO VERIFY ACTUAL OWNER-FURNISHED EQUIPMENT CONNECTION REQUIREMENTS AND SCOPE OF WORK. CONTRACTOR TO PROVIDE INSTALLATION OF ALL OWNER SUPPLIED PLUMBING FITTINGS.
- G2 CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SANITARY, DOMESTIC, AND GAS LINES. VERIFY AVAILABLE INVERT DEPTHS PRIOR TO BEGINNING WORK.
- G3 CONTRACTOR TO VERIFY INVERTS OF MANHOLES AND DOCUMENT WHETHER BACKFLOW VALVE IS REQUIRED.
- G4 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY VTR TO ANY OUTSIDE AIR INTAKE.

KEYED NOTES:

- 1. CONDENSATE TO BE STUBBED TO THE UNDERSIDE OF THE STRUCTURE ROUTING TERMINATION TO NEAREST APPROVED FEATURE TO BE DONE IN IT'S SCOPE OF WORK.
- 2. 3" PD TO BE ROUTED ON INSIDE SURFACE OF CMU WALL TO 25#-1 AT 12" ABOVE ADJACENT GRADE. SEE PLUMBING FLOOR PLAN FOR CONTINUATION.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DOWNSPOUT INFORMATION. SEE PLUMBING FLOOR PLAN FOR CONTINUATION.

callaway
architecture
101 HAMPSHIRE LN. ST1405, RICHARDSON, TX 75080
PHONE 214.388.2525



09/11/14

LAKE CITY WEST
FMC DIALYSIS CLINIC
FRESENIUS
MEDICAL CARE
Lake City, FL
Orthopaedic Ct.

REVISIONS:

JOB NO 14013

PLUMBING
ROOF PLAN

P2.2

DATE: 09.11.14

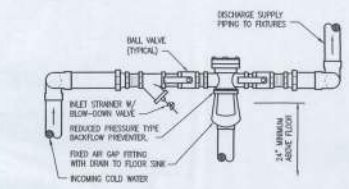
| PLUMBING FIXTURE SCHEDULE | | | | | | | (WC-1) |
|---------------------------|--|-------------------------------|--------------------------|-------------------|-------|------|--|
| FIGURE NO. | DESCRIPTION | MANUFACTURER & CAT. NO. | SIZE | PPIPE CONNECTIONS | | | FEATURES & ACCESSORIES |
| | | | | TRAP | WASTE | VENT | |
| BRP-1 | BACKFLOW PREVENTER REDUCED PRESSURE | WATTS DOWN-01-5 | LINE SIZE | --- | --- | --- | PROVIDE WITH 1/4" TURN BALL VALVE AND BRONZE STRAINER. |
| GC-1 | GRADE CLEAN OUT | JAY R. SMITH 42205 | LINE SIZE (SEE PLANS) | --- | --- | --- | CAST IRON TOP, ABS PLUG WITH GASKET SEAL. SIZE TO MATCH WASTE PIPING. |
| FS-1 | FLOOR SINK | SOLEX CHEF 861-2P-12-W-2-T | 12"x12"x4" DEEP | 6" | 4" | 4" | 11-5/16"x11-3/16"x4-3/4" DEEP. SOIL 40 PVC FLOOR SINK. PROVIDE W/ PVC SOLEM STRAINER, STAINLESS STEEL MESH SCREEN, HALF DRIVE COVER, TRAP PRIMER CONNECTION, 2" MINIMUM. |
| DN-1 | DOWNSPOUT NOZZLE | JAY R. SMITH 1770-T | LINE SIZE (SEE PLANS) | --- | --- | --- | PROVIDE CAST BRONZE BODY NOZZLE AND WALL FLANGE. |
| WC-1 | WALL CLEAN OUT | JAY R. SMITH 4472 | --- | --- | --- | --- | TAPERED BRONZE PLUG AND STAINLESS STEEL COVER. SIZE TO MATCH WASTE PIPING, 2" MINIMUM. |
| HB-1 | HOSE BIBB (FROST-PROOF) | WOODFORD 67 | --- | --- | --- | 3/4" | AIR-SIPHON, AUTOMATIC DRAINING WITH ONE REMOVABLE OPERATING KEY TO BE FINISHED WITH EACH HYDRANT. FLUSH MOUNT AT 18" ABOVE FINISHED GRADE. |

GENERAL SCHEDULE NOTES

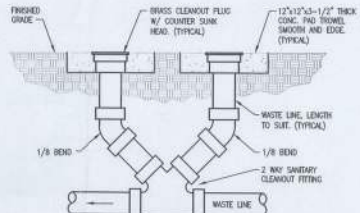
- FIXTURES INDICATED AS ADA MUST COMPLY WITH ICC/ANSI A117.1. VERIFY EXACT NUMBERS, FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS.
- ALL HW PIPING AND DRAIN LINES BEHIND ADA COMPLIANT LIGHTBOXES MUST BE INSULATED TO PREVENT DRIPING. REF. ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL FOAM INSULATION - TRUSBRO OR EQUAL.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS (PPP INC., OR EQUAL). PROVIDE ACCESS PANELS AS REQUIRED.

EQUIVALENT MANUFACTURERS

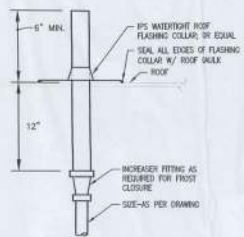
- ENAMELED: CAST IRON, VITREOUS CHINA, ACRYLIC
- SEAMLESS STEEL SINKS
SERVICE SINKS
FRACKETS
- SHOWER VALVES, MIXING VALVES
TOILET SEATS
ROOF DRAINS, FLOOR SINKS, FLOOR DRAINS AND TRAPS
BACKFLOW PREVENTION DEVICES, PRESSURE REDUCING VALVES
TRAP PRIMERS AND CHECK ASSEMBLIES
- KOHLER, AMERICAN STANDARD, ELAFER,
ORANGE TORN WARE, BEST BATH, LAROS, AQUARIAS
ELKAY, JOST, DAYTON, KOHLER
FAC. BRANDES, ACRYL, SIBER & WELLS
KELTA KEY, ELWAY, JOST, KOHLER, ZURN,
AMERICAN STANDARD
FORNICE, LEONARDI, SYMONS, MOON
DUNBAR, OLSONITE, BEANS, SMITH,
NATES, ZURN, WAGLE, ZOSAN, NATES,
MELINDA, FERRIS, APOLLO/COMBIA CO.,
PPP, SOLEX CHEF, SMITH



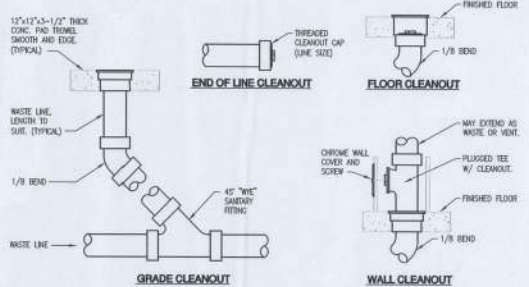
2 REDUCED PRESSURE BACKFLOW PREVENTER
SCALE: NTS



1 DOUBLE GRADE CLEANOUT DETAIL
SCALE: NTS



4 PVC - VENT THROUGH ROOF
SCALE: NTS



3 CLEANOUT DETAILS
SCALE: NTS



09/11/14

Lake City, FL
Orthopaedic Ct.

REVISIONS:

JOB NO: 14013

PLUMBING
SCHEDULES
AND DETAILS
P3.0

DATE: 09.11.14